7705 Service Aggregation Router Gen 2

Release 26.7.R1

MD-CLI Command Reference Guide

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1 Getting started

1.1 About this guide

This document describes the commands available in the MD-CLI that can be used to manage the router.

See the *7250 IXR, 7450 ESS, 7705 SAR Gen 2, 7750 SR, 7950 XRS, and VSR Acronyms Reference Guide* for expansions of acronyms used in this guide.

For a list of unsupported features by platform and chassis, see the *SR OS R26.x.Rx Software Release Notes*, part number 3HE 29176 000*x* TQZZA.

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

Note: This guide generically covers Release 26.*x*.R*x* content and may contain some content that will be released in later maintenance loads. See the *SR OS R26.x.Rx Software Release Notes*, part number 3HE 29176 000*x* TQZZA, for information about features supported in each load of the Release 26.*x*.R*x* software. For a list of features and CLI commands that are present in SR OS but not supported on the 7705 SAR Gen 2 platforms, see "SR OS Features not Supported on SAR Gen 2" in the *SR OS R26.x.Rx Software Release Notes*.

To access the configuration statements within the MD-CLI, the MD-CLI engine must be enabled and the configuration mode must be **mixed** or **model-driven**. For information about using the MD-CLI, see the *7705 SAR Gen 2 MD-CLI User Guide.*

1.2 Platforms and terminology

Note:
Unless explicitly noted otherwise, this guide uses the terminology defined in the following table to collectively designate the specified platforms.

Table 1: Platforms and terminology

Platform	Collective platform designation
7705 SAR-Hx	7705 SAR Gen 2
7705 SAR-Mx	
7705 SAR-1	

1.3 Conventions

This section describes the general conventions used in this guide.

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1.3.1 Precautionary and information messages

The following information symbols are used in the documentation.

DANGER: Danger warns that the described activity or situation may result in serious personal injury or death. An electric shock hazard could exist. Before you begin work on this equipment, be aware of hazards involving electrical circuitry, be familiar with networking environments, and implement accident prevention procedures.

WARNING: Warning indicates that the described activity or situation may, or will, cause equipment damage, serious performance problems, or loss of data.

Caution: Caution indicates that the described activity or situation may reduce your component or system performance.

Note: Note provides additional operational information.

Tip: Tip provides suggestions for use or best practices.

1.3.2 Options or substeps in procedures and sequential workflows

Options in a procedure or a sequential workflow are indicated by a bulleted list. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform one of the listed options to complete the step.

Example: Options in a procedure

1. User must perform this step.
2. This step offers three options. User must perform one option to complete this step.
   - This is one option.
   - This is another option.
   - This is yet another option.

Substeps in a procedure or a sequential workflow are indicated by letters. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform two substeps (a. and b.) to complete the step.

Example: Substeps in a procedure

1. User must perform this step.
2. User must perform all substeps to complete this action.
   a. This is one substep.
   b. This is another substep.

Nested substeps within a procedure or a sequential workflow are indicated by roman numerals. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform two substeps (a. and b.) to complete the step. At substep b, the user must perform two additional substeps (i. and ii.) to complete the step.

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Example: Nested substeps in a procedure

1. User must perform this step.
2. User must perform all substeps to complete this action.
   a. This is one substep.
   b. User must perform all nested substeps to complete this action.
      i. This is a nested substep.
      ii. This is another nested substep.

1.4 MD-CLI command reference

1.4.1 MD-CLI tree hierarchy

Table 2: Command syntax symbols

Symbol	Description
|	A vertical bar represents an "or" condition, indicating that only one of the parameters in the brackets or parentheses can be selected.
( )	Parentheses indicate that one of the parameters must be selected.
[ ]	Brackets indicate optional parameters.
Bold	Commands in **bold** indicate commands and keywords.
Italic	Commands in *italics* indicate that you must enter text for the parameter.

In the following examples, **location** and **graceful-shutdown** are command names. For the **location** command, *keyword* must be one of the keywords **cf1**, **cf2**, or **cf3**. For the **graceful-shutdown** command, *boolean* must be one of the keywords **true** or **false**, although explicitly using the keyword **true** is optional.

```
location keyword
keyword - (cf1 | cf2 | cf3)

graceful-shutdown boolean
boolean - ([true] | false)
```

The configuration branch of the MD-CLI shows the commands and parameters (also known as elements) that are available, shown in a hierarchical structure as in the following figure.

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Figure 1: MD-CLI configuration tree example

The **configure** context is the root level of the configuration branch within the configuration mode in the MD-CLI. Each chapter of this guide describes a configuration branch in the MD-CLI configuration tree.

Commands are linked to their command descriptions in the configuration tree with some exceptions (for example, to reduce repeated content), including the **apply-groups**, **apply-groups-exclude**, and **groups** commands. These commands are used to direct the use of configuration templates called configuration groups in the configure region at all configuration levels. The **apply-groups** command applies a configuration group at a configuration level and the **apply-groups-exclude** command excludes a configuration group at a configuration level. See "Using configuration groups" in the *7705 SAR Gen 2 MD-CLI User Guide* for more information.

Some commands require one or more keys to be entered with the command. For example, the **collector** command has two keys which must be entered: the IP address and the port number. The key name for the IP address (**ip-address**) is optional, however, the key name **port** must be entered before the port number.

```
- collector (ipv4-address-no-zone | ipv6-address-no-zone) port number
```

The command description indicates the required syntax for each command. See MD-CLI command descriptions for more information.

collector [**ip-address**] (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Italicized names after a command or parameter name indicate the parameter type. The parameter types include (but are not limited to):

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

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- number
- IPv4 address
- IPv6 address
- MAC address

The **summary-only** parameter, for example, requires a Boolean value. The **autonomous-system** parameter requires a number. For more information about the input values, click the command or parameter name from the MD-CLI tree to be linked to the command description.

```
- summary-only boolean
- autonomous-system number
```

A parameter type may also be a combination of different base types. These parameters are displayed in the MD-CLI tree with the individual parameter types enclosed in round brackets (()), separated by a vertical bar (|). For example, the **indirect** parameter can be configured with either an IPv4 address or IPv6 address:

```
- indirect (ipv4-address-no-zone | ipv6-address-no-zone)
```

Allowed values in strings are printable, 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotation marks. Double quotation marks within a string are not supported.

1.4.1.1 Context path

In the CLI tree section, a contextual path at the top of a page refers to the full context of the first command on the page, as shown in the following figure.

Figure 2: Command tree navigation

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1.4.2 MD-CLI command descriptions

The command syntax is shown in the command description, where the command is displayed in bold, followed by any key names and a type. From the MD-CLI tree, the **configure log accounting-policy** command shows that the key for the command is a number:

```
    - log
        - accounting-policy number
```

The command description for **accounting-policy** shows that the key for the command is a policy identifier:

accounting-policy [**policy-id**] *number*

The square brackets ([ ]) indicate that the **policy-id** key name is optional. From the **policy-id** command description, the range of the identifier is a number from 1 to 99. Therefore, when using the **accounting-policy** command, the following inputs are acceptable:

```
accounting-policy policy-id 15
accounting-policy 25
accounting-policy 1
accounting-policy policy-id 99
```

The following table describes the fields that may be displayed for a command. Not all fields are applicable for all commands.

Table 3: Command descriptions fields

Field	Description
Element Name	Name of the element (command or parameter) and its syntax
Synopsis	Summary description of the element
Context	Full path to the command (with links to parent commands)
Tree	Link to the command in the CLI tree. For key elements, the link is to the parent element.
Description	Detailed description of the element, as needed
String length	For string elements, the range of the number of characters allowed
String format	For string elements, the format of the characters in the string
Range/Max. range	For number elements, the range of allowed values. A maximum range may be overridden by a platform-specific range.
Units	Base unit type of the element

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Field	Description
Options	Enumerated values allowed for the element. Not all options are available on all platforms.
MD-CLI default	MD-CLI default value for the element
Default	YANG default value when there is no MD-CLI default. Platform-specific defaults are not displayed.
Reference	Reference to an element instance in the configuration or state datastore
Min./Max. instances	For lists and leaf-lists, the minimum or maximum number of instances for this element
Notes	Information about special attributes of the element, including whether the element is: • a key for an element • mandatory • ordered by the user (instead of by the system) • part of a choice of elements
Introduced	Release in which the element was introduced
Deprecated	Release in which the element was deprecated
Platforms	Hardware platforms on which the element is available. See Platforms and terminology for more information about the platforms. **Note:** Some SR OS features are platform-specific and therefore may not be available or visible on all platforms. See the *SR OS R26.x.Rx Software Release Notes*, part number 3HE 29176 000*x* TQZZA, for information about platform support.

A description of the element is also available from the online help for the element. For information about using the online help in the MD-CLI, see the *7705 SAR Gen 2 MD-CLI User Guide*.

Note:
All options for enumerated types and numerical ranges are listed in the MD-CLI command descriptions, however, not all options or ranges are valid on all platforms.

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2 Operational commands

This section lists the commands available at the operation level of the MD-CLI.

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2.1 admin commands

The **admin** commands are used to perform administrative functions, such as displaying configuration that is not subject to AAA, manually saving the configuration, clearing user sessions, and rebooting the system.

```
admin
   – clear
      – security
         – lockout
            – all
            – user named-item
         – password-history
            – all
            – user named-item
   – disconnect
      – address (ipv4-address-no-zone | ipv6-address-no-zone)
      – op-table-bypass boolean
      – session-id number
      – session-type keyword
      – username named-item
   – ipsec
      – show
         – key
            – gateway named-item
            – ip-tunnel interface-name
            – ipsec-tunnel named-item
            – peer-tunnel-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            – peer-tunnel-port number
            – type keyword
   – nat
      – save-deterministic-script
   – reboot
      – [card] keyword
      – hold
      – now
   – redundancy
      – force-switchover
         – now
      – synchronize
         – boot-environment
         – certificate
         – configuration
   – save
      – bof
      – cleartext
      – configure
      – debug
      – password string
      – [url] string
   – set
      – time
         – [system-time] date-and-time
   – show
      – configuration
         – bof
         – booted
         – cflash-id cflash-id
         – [cli-path] cli-path-type
         – configure
         – debug
         – depth number
```


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admin show configuration detail

```
        - detail
        - flat
        - full-context
        - inheritance
        - intended
        - json
        - running
        - units
        - xml
  - support-mode
     - disable
     - kernel
        - password encrypted-leaf
        - token string
     - shell
        - password encrypted-leaf
        - token string
  - system
     - license
        - activate
           - [file-url] string
           - now
        - clear
           - now
        - validate
           - [file-url] string
     - management-interface
        - commit
           - confirmed
              - accept
              - cancel
        - commit-management
           - python-scripts
              - disable-next-run
        - operations
           - delete-operation
              - [delete-id] number
              - op-table-bypass boolean
           - stop-operation
              - op-table-bypass boolean
              - [stop-id] number
     - port-speed-mode
        - force
        - [mode] keyword
     - security
        - hash-control
           - custom-hash
              - algorithm keyword
              - key string
           - remove-custom-hash
        - os-security
           - activate-password
              - card reference
              - force
              - password string
           - anti-theft
              - activate
                 - card reference
                 - force
                 - password string
              - deactivate
                 - card reference
                 - force
                 - password string
```


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admin system security os-security anti-theft unlock

```
            - unlock
               - password string
         - remove-password
            - force
            - password string
         - set-password
            - current-password anti-theft-password-cleartext
            - force
            - new-password anti-theft-password-cleartext
      - pki
         - clear-ocsp-cache
            - [entry-id] number
         - cmpv2
            - cert-request
               - ca-profile reference
               - current-certificate pki-file-name
               - current-key pki-file-name
               - domain-name string
               - hash-algorithm keyword
               - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - new-key pki-file-name
               - save-as cflash-url
               - subject-dn string
            - clear-request
               - ca-profile reference
            - initial-registration
               - ca-profile reference
               - certificate pki-file-name
               - domain-name string
               - hash-algorithm keyword
               - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - key-to-certify pki-file-name
               - password string
               - protection-key pki-file-name
               - reference string
               - save-as cflash-url
               - send-chain
               - subject-dn string
               - with-ca reference
            - key-update
               - ca-profile reference
               - hash-algorithm keyword
               - new-key pki-file-name
               - old-certificate pki-file-name
               - old-key pki-file-name
               - save-as cflash-url
            - poll
               - ca-profile reference
         - convert-file
            - force
            - format keyword
            - [input-file] pki-file-name
            - [output-file] pki-file-name
         - crl-update
            - ca-profile reference
         - est
            - ca-certificates
               - est-profile string
               - force
               - output-url cflash-url
            - enroll
               - domain-name string
               - est-profile string
               - force
```


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```
                - hash-algorithm keyword
                - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                - key cflash-url
                - output-file pki-file-name
                - subject-dn string
                - validate-certificate-chain
             - renew
                - certificate cflash-url
                - est-profile string
                - force
                - hash-algorithm keyword
                - key cflash-url
                - output-file pki-file-name
                - validate-certificate-chain
          - export
             - format keyword
             - input-file pki-file-name
             - key-file pki-file-name
             - output-url cflash-url
             - password string
             - type keyword
          - generate-csr
             - domain-name string
             - hash-algorithm keyword
             - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
             - key-url cflash-url
             - output-url cflash-url
             - subject-dn string
             - use-printable
          - generate-keypair
             - dsa-key-size number
             - ecdsa-curve keyword
             - rsa-key-size number
             - [save-path] cflash-url
          - import
             - format keyword
             - input-url cflash-url
             - output-file pki-file-name
             - password string
             - type keyword
             - validate-certificate-chain
          - reload
             - application keyword
             - certificate pki-file-name
             - key pki-file-name
          - show
             - file-content
                - [file-path] cflash-url
                - format keyword
                - password string
                - type keyword
          - update-certificate
             - certificate reference
       - secure-boot
          - activate
             - card reference
             - confirmation-code string-not-all-spaces
             - serial-number string-not-all-spaces
          - revoke-key
             - card reference
             - confirmation-code string-not-all-spaces
             - serial-number string-not-all-spaces
          - update-key
             - card reference
```


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admin system security secure-boot update-key confirmation-code

```
            - confirmation-code string-not-all-spaces
            - serial-number string-not-all-spaces
            - software-image cflash-and-url
         - validate
            - software-image cflash-and-url
      - storage-encryption
         - primary-secret
            - set-secret
      - system-password
         - admin-password
   - telemetry
      - grpc
         - cancel
            - all
            - subscription-id reference
- tech-support
   - [url] url
```


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2.1.1 admin command descriptions

admin

Synopsis	Enter the administrative context for system operations
Context	admin
Tree	admin
Introduced	25.3.R2
Platforms	SAR Gen 2

clear

Synopsis	Enter the **clear** context
Context	admin clear
Tree	clear
Introduced	25.3.R2
Platforms	SAR Gen 2

security

Synopsis	Enter the **security** context
Context	admin clear security
Tree	security
Introduced	25.3.R2
Platforms	SAR Gen 2

lockout

Synopsis	Reset the lockout timer
Context	admin clear security lockout
Tree	lockout
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Clear lockout of all users
Context	admin clear security lockout all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or **user**.
Introduced	25.3.R2
Platforms	SAR Gen 2

user *named-item*

Synopsis	User to be cleared of lockout
Context	admin clear security lockout user *named-item*
Tree	user
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **all** or **user**.
Introduced	25.3.R2
Platforms	SAR Gen 2

password-history

Synopsis	Clear the password history
Context	admin clear security password-history
Tree	password-history
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Clear password history of all users
Context	admin clear security password-history all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or **user**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

user *named-item*

Synopsis	User to be cleared of password history information
Context	admin clear security password-history user *named-item*
Tree	user
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **all** or **user**.
Introduced	25.3.R2
Platforms	SAR Gen 2

disconnect

Synopsis	Disconnect a user session
Context	admin disconnect
Tree	disconnect
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the session to disconnect
Context	admin disconnect address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

op-table-bypass *boolean*

Synopsis	Avoid operation ID allocation
Context	admin disconnect op-table-bypass *boolean*
Tree	op-table-bypass

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Description	When configured to **true**, the system bypasses the YANG-based operations infrastructure and avoids the allocation of an operation ID. This is useful if the global operations table is full and a delete operation or **admin disconnect** is required.
Introduced	25.3.R2
Platforms	SAR Gen 2

session-id *number*

Synopsis	ID of the session to disconnect
Context	admin disconnect session-id *number*
Tree	session-id
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

session-type *keyword*

Synopsis	Type of session to disconnect
Context	admin disconnect session-type *keyword*
Tree	session-type
Options	console, telnet, ssh, ftp, netconf, grpc, cron-ehs
Introduced	25.3.R2
Platforms	SAR Gen 2

username *named-item*

Synopsis	Username to disconnect
Context	admin disconnect username *named-item*
Tree	username
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec

Synopsis	Enter the **ipsec** context
Context	admin ipsec
Tree	ipsec
Introduced	25.3.R2
Platforms	SAR Gen 2

show

Synopsis	Enter the **show** context
Context	admin ipsec show
Tree	show
Introduced	25.3.R2
Platforms	SAR Gen 2

key

Synopsis	Display IPsec key history
Context	admin ipsec show key
Tree	key
Introduced	25.3.R2
Platforms	SAR Gen 2

gateway *named-item*

Synopsis	IPsec gateway name
Context	admin ipsec show key gateway *named-item*
Tree	gateway
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: (**gateway**, **peer-tunnel-ip-address**, and **peer-tunnel-port**), **ip-tunnel**, or **ipsec-tunnel**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-tunnel *interface-name*

Synopsis	IPsec transport mode IP tunnel name
Context	admin ipsec show key ip-tunnel *interface-name*
Tree	ip-tunnel
String length	1 to 32
Notes	The following elements are part of a mandatory choice: (**gateway**, **peer-tunnel-ip-address**, and **peer-tunnel-port**), **ip-tunnel**, or **ipsec-tunnel**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-tunnel *named-item*

Synopsis	IPsec tunnel name
Context	admin ipsec show key ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: (**gateway**, **peer-tunnel-ip-address**, and **peer-tunnel-port**), **ip-tunnel**, or **ipsec-tunnel**.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-tunnel-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Dynamic tunnel IP address
Context	admin ipsec show key peer-tunnel-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-tunnel-ip-address
Notes	The following elements are part of a mandatory choice: (**gateway**, **peer-tunnel-ip-address**, and **peer-tunnel-port**), **ip-tunnel**, or **ipsec-tunnel**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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peer-tunnel-port *number*

Synopsis	Dynamic tunnel port
Context	admin ipsec show key peer-tunnel-port *number*
Tree	peer-tunnel-port
Range	0 | 1 to 65535
Notes	The following elements are part of a mandatory choice: (**gateway**, **peer-tunnel-ip-address**, and **peer-tunnel-port**), **ip-tunnel**, or **ipsec-tunnel**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Key type
Context	admin ipsec show key type *keyword*
Tree	type
Options	ike, child
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enter the **nat** context
Context	admin nat
Tree	nat
Introduced	25.3.R2
Platforms	SAR Gen 2

save-deterministic-script

Synopsis	Save script that computes deterministic NAT map entries
Context	admin nat save-deterministic-script
Tree	save-deterministic-script
Introduced	25.3.R2

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Platforms	SAR Gen 2

reboot

Synopsis	Reboot CPM or force an upgrade of system boot ROMs
Context	admin reboot
Tree	reboot
Introduced	25.3.R2
Platforms	SAR Gen 2

[**card**] *keyword*

Synopsis	Card to reboot
Context	admin reboot [card] *keyword*
Tree	[card]
Options	active, standby, upgrade
Introduced	25.3.R2
Platforms	SAR Gen 2

hold

Synopsis	Hold a rebooted standby CPM from coming back online
Context	admin reboot hold
Tree	hold
Introduced	25.3.R2
Platforms	SAR Gen 2

now

Synopsis	Reboot immediately without prompts or confirmation
Context	admin reboot now
Tree	now
Introduced	25.3.R2
Platforms	SAR Gen 2

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redundancy

Synopsis	Enter the **redundancy** context
Context	admin redundancy
Tree	redundancy
Introduced	25.3.R2
Platforms	SAR Gen 2

force-switchover

Synopsis	Force a switchover to the standby CPM
Context	admin redundancy force-switchover
Tree	force-switchover
Introduced	25.3.R2
Platforms	SAR Gen 2

now

Synopsis	Force the switchover to the standby CPM immediately
Context	admin redundancy force-switchover now
Tree	now
Introduced	25.3.R2
Platforms	SAR Gen 2

synchronize

Synopsis	Synchronize the standby CPM
Context	admin redundancy synchronize
Tree	synchronize
Introduced	25.3.R2
Platforms	SAR Gen 2

boot-environment

Synopsis	Synchronize all files required for the boot process

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Context	admin redundancy synchronize boot-environment
Tree	boot-environment
Notes	The following elements are part of a mandatory choice: **boot-environment**, **certificate**, or **configuration**.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate

Synopsis	Synchronize the PKI certificate files
Context	admin redundancy synchronize certificate
Tree	certificate
Notes	The following elements are part of a mandatory choice: **boot-environment**, **certificate**, or **configuration**.
Introduced	25.3.R2
Platforms	SAR Gen 2

configuration

Synopsis	Synchronize the configuration files
Context	admin redundancy synchronize configuration
Tree	configuration
Description	When specified, the system synchronizes the primary, secondary, and tertiary configuration files.
Notes	The following elements are part of a mandatory choice: **boot-environment**, **certificate**, or **configuration**.
Introduced	25.3.R2
Platforms	SAR Gen 2

save

Synopsis	Perform configuration save operations
Context	admin save
Tree	save
Introduced	25.3.R2
Platforms	SAR Gen 2

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bof

Synopsis	Save the BOF region configuration
Context	admin save bof
Tree	bof
Notes	The following elements are part of a choice: **bof**, **configure**, **debug**, or **li**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cleartext

Synopsis	Force the configuration to save in cleartext
Context	admin save cleartext
Tree	cleartext
Description	When configured, the system saves the configuration in cleartext format. The system prompts the user to enter the OS security password or the BOF encryption key.
Introduced	25.3.R2
Platforms	SAR Gen 2

configure

Synopsis	Save the configure region configuration
Context	admin save configure
Tree	configure
Notes	The following elements are part of a choice: **bof**, **configure**, **debug**, or **li**.
Introduced	25.3.R2
Platforms	SAR Gen 2

debug

Synopsis	Save the debug region configuration
Context	admin save debug
Tree	debug
Notes	The following elements are part of a choice: **bof**, **configure**, **debug**, or **li**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

password *string*

Synopsis	Password to force the configuration save in cleartext
Context	admin save password *string*
Tree	password
String length	8 to 32
Introduced	25.10.R1
Platforms	SAR Gen 2

[**url**] *string*

Synopsis	Location to save the configuration
Context	admin save [url] *string*
Tree	[url]
Introduced	25.3.R2
Platforms	SAR Gen 2

set

Synopsis	Enter the **set** context
Context	admin set
Tree	set
Introduced	25.3.R2
Platforms	SAR Gen 2

time

Synopsis	System date and time
Context	admin set time
Tree	time
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**system-time**] *date-and-time*

Synopsis	System date and time
Context	admin set time [system-time] *date-and-time*
Tree	[system-time]
Description	This command sets the system date and time. The time zone may optionally be specified. When the time zone is not specified, the system uses the configured system time zone.
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

show

Synopsis	Enter the **show** context
Context	admin show
Tree	show
Description	The **admin show** commands display the same configuration as the **info** command but are not subject to command authorization and do not require configuration mode access.
Introduced	25.3.R2
Platforms	SAR Gen 2

configuration

Synopsis	Show the current configuration
Context	admin show configuration
Tree	configuration
Introduced	25.3.R2
Platforms	SAR Gen 2

bof

Synopsis	Show the BOF region configuration
Context	admin show configuration bof
Tree	bof

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Notes	The following elements are part of a choice: **bof**, **configure**, **debug**, or **li**.
Introduced	25.3.R2
Platforms	SAR Gen 2

booted

Synopsis	Show the booted BOF configuration
Context	admin show configuration booted
Tree	booted
Notes	The following elements are part of a choice: **booted** or **cflash-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cflash-id *cflash-id*

Synopsis	Show the BOF configuration file on a compact flash
Context	admin show configuration cflash-id *cflash-id*
Tree	cflash-id
String length	4 to 6
String format	'cflash-id' must be cf1-4: or cf1-4-A-D: (e.g. cf1: or cf2-B:)
Notes	The following elements are part of a choice: **booted** or **cflash-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from '/'
Context	admin show configuration [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	SAR Gen 2

configure

Synopsis	Show the configure region configuration

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Context	admin show configuration configure
Tree	configure
Notes	The following elements are part of a choice: **bof**, **configure**, **debug**, or **li**.
Introduced	25.3.R2
Platforms	SAR Gen 2

debug

Synopsis	Show the debug region configuration
Context	admin show configuration debug
Tree	debug
Notes	The following elements are part of a choice: **bof**, **configure**, **debug**, or **li**.
Introduced	25.3.R2
Platforms	SAR Gen 2

depth *number*

Synopsis	Depth limit from the pwc
Context	admin show configuration depth *number*
Tree	depth
Range	1 to 4294967040
Introduced	25.3.R2
Platforms	SAR Gen 2

detail

Synopsis	Include default and unconfigured values
Context	admin show configuration detail
Tree	detail
Introduced	25.3.R2
Platforms	SAR Gen 2

flat

Synopsis	Show the context from the pwc on each line

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Context	admin show configuration flat
Tree	flat
Notes	The following elements are part of a choice: **flat**, **full-context**, **json**, or **xml**.
Introduced	25.3.R2
Platforms	SAR Gen 2

full-context

Synopsis	Show the full context on each line
Context	admin show configuration full-context
Tree	full-context
Notes	The following elements are part of a choice: **flat**, **full-context**, **json**, or **xml**.
Introduced	25.3.R2
Platforms	SAR Gen 2

inheritance

Synopsis	Include configuration inherited from configuration groups
Context	admin show configuration inheritance
Tree	inheritance
Description	This option specifies the inclusion of configuration inherited from configuration groups in the output. This option should only be used in the **configure** region when configuration groups are used. The output with this option is the same as **admin show configuration** when used in other configuration regions.
Introduced	25.3.R2
Platforms	SAR Gen 2

intended

Synopsis	Show the intended configuration
Context	admin show configuration intended
Tree	intended
Notes	The following elements are part of a choice: **intended** or **running**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

json

Synopsis	Show the output in indented JSON format
Context	admin show configuration json
Tree	json
Notes	The following elements are part of a choice: **flat**, **full-context**, **json**, or **xml**.
Introduced	25.3.R2
Platforms	SAR Gen 2

running

Synopsis	Show the running configuration
Context	admin show configuration running
Tree	running
Notes	The following elements are part of a choice: **intended** or **running**.
Introduced	25.3.R2
Platforms	SAR Gen 2

units

Synopsis	Include unit types for applicable elements
Context	admin show configuration units
Tree	units
Introduced	25.3.R2
Platforms	SAR Gen 2

xml

Synopsis	Show the output in indented XML format
Context	admin show configuration xml
Tree	xml
Notes	The following elements are part of a choice: **flat**, **full-context**, **json**, or **xml**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

support-mode

Synopsis	Enable technical support commands
Context	admin support-mode
Tree	support-mode
Description	Commands in this context enable the **kernel**, **shell**, and **vmhost** commands used only by Nokia technical support for troubleshooting.
Introduced	25.3.R4
Platforms	SAR Gen 2

disable

Synopsis	Disable technical support commands
Context	admin support-mode disable
Tree	disable
Description	This command disables the **kernel**, **shell**, and **vmhost** commands used only by Nokia technical support for troubleshooting.
Notes	The following elements are part of a choice: **disable**, **kernel**, or **shell**.
Introduced	25.3.R2
Platforms	SAR Gen 2

kernel

Synopsis	Enter the **kernel** context
Context	admin support-mode kernel
Tree	kernel
Description	This command allows Nokia technical support to access the **kernel** and **vmhost** commands. These commands are used only by Nokia technical support for troubleshooting.
Notes	The following elements are part of a choice: **disable**, **kernel**, or **shell**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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password *encrypted-leaf*

Synopsis	Kernel command password
Context	admin support-mode kernel password *encrypted-leaf*
Tree	password
Description	This command specifies the password to access **kernel** and **vmhost** commands. These commands are used only by Nokia technical support for troubleshooting. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

token *string*

Synopsis	Kernel command token
Context	admin support-mode kernel token *string*
Tree	token
Description	This command specifies the token to access **kernel** and **vmhost** commands. These commands are used only by Nokia technical support for troubleshooting.
String length	1 to 1024
Introduced	25.10.R1
Platforms	SAR Gen 2

shell

Synopsis	Enter the **shell** context
Context	admin support-mode shell
Tree	shell
Description	This command allows Nokia technical support to access the **shell** commands. **shell** commands are used only by Nokia technical support for troubleshooting.
Notes	The following elements are part of a choice: **disable**, **kernel**, or **shell**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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password *encrypted-leaf*

Synopsis	Shell command password
Context	admin support-mode shell password *encrypted-leaf*
Tree	password
Description	This command specifies the password to access the **shell** commands. This command is used only by Nokia technical support for troubleshooting. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

token *string*

Synopsis	Shell command token
Context	admin support-mode shell token *string*
Tree	token
Description	This command specifies the token to access the **shell** command. This command is used only by Nokia technical support for troubleshooting.
String length	1 to 1024
Introduced	25.10.R1
Platforms	SAR Gen 2

system

Synopsis	Enter the **system** context
Context	admin system
Tree	system
Introduced	25.3.R6
Platforms	SAR Gen 2

license

Synopsis	Enter the **license** context

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Context	admin system license
Tree	license
Introduced	25.3.R2
Platforms	SAR Gen 2

activate

Synopsis	Load and activate a system license
Context	admin system license activate
Tree	activate
Introduced	25.3.R2
Platforms	SAR Gen 2

[**file-url**] *string*

Synopsis	Location of the license file to activate
Context	admin system license activate [file-url] *string*
Tree	[file-url]
String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

now

Synopsis	Activate the license immediately
Context	admin system license activate now
Tree	now
Introduced	25.3.R2
Platforms	SAR Gen 2

clear

Synopsis	Clear system license
Context	admin system license clear
Tree	clear

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Description	This command removes the entitlements that were installed using a license file. All the entitlements must be unallocated; otherwise, the command fails.
Introduced	25.3.R2
Platforms	SAR Gen 2

now

Synopsis	Clear license entitlements immediately
Context	admin system license clear now
Tree	now
Introduced	25.3.R2
Platforms	SAR Gen 2

validate

Synopsis	Load and validate a system license
Context	admin system license validate
Tree	validate
Introduced	25.3.R2
Platforms	SAR Gen 2

[**file-url**] *string*

Synopsis	Location of the license file to validate
Context	admin system license validate [file-url] *string*
Tree	[file-url]
String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

management-interface

Synopsis	Enter the **management-interface** context
Context	admin system management-interface
Tree	management-interface

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Introduced	25.3.R2
Platforms	SAR Gen 2

commit

Synopsis	Enter the **commit** context
Context	admin system management-interface commit
Tree	commit
Introduced	25.3.R2
Platforms	SAR Gen 2

confirmed

Synopsis	Enter the **confirmed** context
Context	admin system management-interface commit confirmed
Tree	confirmed
Description	Commands in this context accept or cancel a confirmed commit that is in progress and that was started by another configuration session.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept

Synopsis	Accept commit confirmed and cancel automatic rollback
Context	admin system management-interface commit confirmed accept
Tree	accept
Introduced	25.3.R2
Platforms	SAR Gen 2

cancel

Synopsis	Cancel commit confirmed and roll back changes
Context	admin system management-interface commit confirmed cancel
Tree	cancel
Description	When specified, the router rolls back the configuration and returns the changes to the candidate.

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Introduced	25.3.R2
Platforms	SAR Gen 2

commit-management

Synopsis	Enter the **commit-management** context
Context	admin system management-interface commit-management
Tree	commit-management
Introduced	25.10.R1
Platforms	SAR Gen 2

python-scripts

Synopsis	Enter the **python-scripts** context
Context	admin system management-interface commit-management python-scripts
Tree	python-scripts
Introduced	25.10.R1
Platforms	SAR Gen 2

disable-next-run

Synopsis	Disable commit Python scripts for next commit
Context	admin system management-interface commit-management python-scripts disable-next-run
Tree	disable-next-run
Introduced	25.10.R1
Platforms	SAR Gen 2

operations

Synopsis	Enter the **operations** context
Context	admin system management-interface operations
Tree	operations
Description	Commands in this context are used to manage YANG-based operations (for example, **admin reboot**, or **ping**) in model-driven interfaces.
Introduced	25.3.R2

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Platforms	SAR Gen 2

delete-operation

Synopsis	Stop and remove an operation
Context	admin system management-interface operations delete-operation
Tree	delete-operation
Description	This command removes an operation and all status and data associated with it. If the operation was executing, it is stopped before removal.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**delete-id**] *number*

Synopsis	ID of the operation to remove
Context	admin system management-interface operations delete-operation [delete-id] *number*
Tree	[delete-id]
Range	1 to 10000
Notes	This element is mandatory.
Introduced	25.3.R1
Platforms	SAR Gen 2

op-table-bypass *boolean*

Synopsis	Avoid operation ID allocation
Context	admin system management-interface operations delete-operation op-table-bypass *boolean*
Tree	op-table-bypass
Description	When configured to **true**, the system bypasses the YANG-based operations infrastructure and avoids the allocation of an operation ID. This is useful if the global operations table is full and a delete operation or **admin disconnect** is required.
Introduced	25.3.R2
Platforms	SAR Gen 2

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stop-operation

Synopsis	Stop the execution of an operational command
Context	admin system management-interface operations stop-operation
Tree	stop-operation
Description	This command stops the execution of an operational command. An operation launched as "asynchronous" is not deleted from the system when it is stopped. Status and other data associated with the operation persist until the operation is explicitly deleted using the delete operation command or a retention timeout.
Introduced	25.3.R2
Platforms	SAR Gen 2

op-table-bypass *boolean*

Synopsis	Avoid operation ID allocation
Context	admin system management-interface operations stop-operation op-table-bypass *boolean*
Tree	op-table-bypass
Description	When configured to **true**, the system bypasses the YANG-based operations infrastructure and avoids the allocation of an operation ID. This is useful if the global operations table is full and a delete operation or **admin disconnect** is required.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**stop-id**] *number*

Synopsis	ID of the operation to stop
Context	admin system management-interface operations stop-operation [stop-id] *number*
Tree	[stop-id]
Range	1 to 10000
Notes	This element is mandatory.
Introduced	25.3.R1
Platforms	SAR Gen 2

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port-speed-mode

Synopsis	Set the port speed mode for the system
Context	admin system port-speed-mode
Tree	port-speed-mode
Description	When configured, the router allows the specified combination of Ethernet port speeds to be configured on SFP ports.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

force

Synopsis	Proceed without further prompting from the system
Context	admin system port-speed-mode force
Tree	force
Description	When configured, this command ignores additional prompts from the system. This command is required for non-interactive interfaces.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**mode**] *keyword*

Synopsis	Port speed combination allowed on the router
Context	admin system port-speed-mode [mode] *keyword*
Tree	[mode]
Options	c5-c12-1g/10g, c5-c10-10g+c11-c12-10g/25g
Notes	This element is mandatory.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

security

Synopsis	Enter the **security** context
Context	admin system security
Tree	security

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Introduced	25.3.R6
Platforms	SAR Gen 2

hash-control

Synopsis	Enter the **hash-control** context
Context	admin system security hash-control
Tree	hash-control
Introduced	25.3.R6
Platforms	SAR Gen 2

custom-hash

Synopsis	Custom encryption
Context	admin system security hash-control custom-hash
Tree	custom-hash
Introduced	25.3.R6
Platforms	SAR Gen 2

algorithm *keyword*

Synopsis	Algorithm for custom encryption
Context	admin system security hash-control custom-hash algorithm *keyword*
Tree	algorithm
Description	This command configures the algorithm for custom encryption. The encryption uses ECB mode, PKCS#7 padding, and Base64 encoding.
Options	3des – DES-EDE3-ECB with PKCS #5 padding aes128 – AES-128-ECB with PKCS #7 padding aes192 – AES-192-ECB with PKCS #7 padding aes256 – AES-256-ECB with PKCS #7 padding
Notes	This element is mandatory.
Introduced	25.3.R6
Platforms	SAR Gen 2

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key *string*

Synopsis	Key for encryption algorithm
Context	admin system security hash-control custom-hash key *string*
Tree	key
String length	1 to 126
Notes	This element is mandatory.
Introduced	25.3.R6
Platforms	SAR Gen 2

remove-custom-hash

Synopsis	Remove the custom encryption
Context	admin system security hash-control remove-custom-hash
Tree	remove-custom-hash
Introduced	25.3.R2
Platforms	SAR Gen 2

os-security

Synopsis	Enter the **os-security** context
Context	admin system security os-security
Tree	os-security
Introduced	25.3.R2
Platforms	SAR Gen 2

activate-password

Synopsis	Activate the new password used to protect the system
Context	admin system security os-security activate-password
Tree	activate-password
Description	When configured, the system activates the new password, then reboots the system to encrypt the BOF or configuration using the new password. Anti-theft does not need to be deactivated to change the OS security password using this command.
Introduced	25.10.R1

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Platforms	SAR Gen 2

card *reference*

Synopsis	CPM slot to apply anti-theft settings
Context	admin system security os-security activate-password card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

force

Synopsis	Proceed without further prompting from the system
Context	admin system security os-security activate-password force
Tree	force
Description	When configured, this command ignores further prompts from the system. This command is required for non-interactive interfaces.
Introduced	25.10.R1
Platforms	SAR Gen 2

password *string*

Synopsis	Preconfigured anti-theft password
Context	admin system security os-security activate-password password *string*
Tree	password
Description	This command specifies the preconfigured anti-theft password. This command is required for non-interactive interfaces.
String length	12 to 32
Introduced	25.10.R1
Platforms	SAR Gen 2

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anti-theft

Synopsis	Enter the **anti-theft** context
Context	admin system security os-security anti-theft
Tree	anti-theft
Introduced	25.3.R2
Platforms	SAR Gen 2

activate

Synopsis	Enable anti-theft for the specified CPM card
Context	admin system security os-security anti-theft activate
Tree	activate
Introduced	25.3.R2
Platforms	SAR Gen 2

card *reference*

Synopsis	CPM slot to apply anti-theft settings
Context	admin system security os-security anti-theft activate card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Proceed without further prompting from the system
Context	admin system security os-security anti-theft activate force
Tree	force
Description	When configured, this command ignores further prompts from the system. This command is required for non-interactive interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

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password *string*

Synopsis	Preconfigured anti-theft password
Context	admin system security os-security anti-theft activate password *string*
Tree	password
Description	This command specifies the preconfigured anti-theft password. This command is required for non-interactive interfaces.
String length	12 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

deactivate

Synopsis	Disables anti-theft for the specified CPM card
Context	admin system security os-security anti-theft deactivate
Tree	deactivate
Introduced	25.3.R2
Platforms	SAR Gen 2

card *reference*

Synopsis	CPM slot to apply anti-theft settings
Context	admin system security os-security anti-theft deactivate card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Proceed without further prompting from the system
Context	admin system security os-security anti-theft deactivate force
Tree	force

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Description	When configured, this command ignores further prompts from the system. This command is required for non-interactive interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

password *string*

Synopsis	Preconfigured anti-theft password
Context	admin system security os-security anti-theft deactivate password *string*
Tree	password
Description	This command specifies the preconfigured anti-theft password. This command is required for non-interactive interfaces.
String length	12 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

unlock

Synopsis	Disable anti-theft locking for the CPM
Context	admin system security os-security anti-theft unlock
Tree	unlock
Introduced	25.3.R2
Platforms	SAR Gen 2

password *string*

Synopsis	Preconfigured anti-theft password
Context	admin system security os-security anti-theft unlock password *string*
Tree	password
Description	This command specifies the preconfigured anti-theft password. This command is required for non-interactive interfaces.
String length	12 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

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remove-password

Synopsis	Remove the OS security password
Context	admin system security os-security remove-password
Tree	remove-password
Description	When configured, this command removes the OS security password. Any applications using the password must first be disabled before removing the password. Anti-theft must be deactivated to remove the OS security password.
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Proceed without further prompting from the system
Context	admin system security os-security remove-password force
Tree	force
Description	When configured, this command ignores further prompts from the system. This command is required for non-interactive interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

password *string*

Synopsis	Preconfigured anti-theft password
Context	admin system security os-security remove-password password *string*
Tree	password
Description	This command specifies the preconfigured anti-theft password. This command is required for non-interactive interfaces.
String length	12 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

set-password

Synopsis	Configure the password used to protect the system
Context	admin system security os-security set-password

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Tree	set-password
Description	When configured, if there was no password previously configured, a new password must be configured using using the **new-password** command. If a password has already been configured, the user must enter the **current-password**.
Introduced	25.3.R2
Platforms	SAR Gen 2

current-password *anti-theft-password-cleartext*

Synopsis	Existing OS security password
Context	admin system security os-security set-password current-password *anti-theft-password-cleartext*
Tree	current-password
String length	12 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Proceed without further prompting from the system
Context	admin system security os-security set-password force
Tree	force
Description	When configured, this command ignores the requirement to enter the **new-password** twice. Configuring this command is required for non-interactive interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

new-password *anti-theft-password-cleartext*

Synopsis	New OS security password
Context	admin system security os-security set-password new-password *anti-theft-password-cleartext*
Tree	new-password
Description	This command configures the new OS security password. When configured, the user is prompted to reenter the new password.
String length	12 to 32
Introduced	25.3.R2

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Platforms	SAR Gen 2

pki

Synopsis	Enter the **pki** context
Context	admin system security pki
Tree	pki
Description	Commands in this context specify options for public key infrastructure operations.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-ocsp-cache

Synopsis	Clear the current OCSP response cache
Context	admin system security pki clear-ocsp-cache
Tree	clear-ocsp-cache
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Local OCSP response cache entry ID to clear
Context	admin system security pki clear-ocsp-cache [entry-id] *number*
Tree	[entry-id]
Range	1 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

cmpv2

Synopsis	Enter the **cmpv2** context
Context	admin system security pki cmpv2
Tree	cmpv2
Description	Commands in this context specify options for Certificate Management Protocol v2 (CMPv2) operations.

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Introduced	25.3.R2
Platforms	SAR Gen 2

cert-request

Synopsis	Request an additional certificate
Context	admin system security pki cmpv2 cert-request
Tree	cert-request
Description	When specified, the system requests an additional certificate after the initial certificate has been obtained from the CA. The request is authenticated by a signature signed by the current key, along with the current certificate. CA may not return a certificate immediately, for example, if the request process requires manual intervention. The **poll** command can be used to poll the status of the request. The hash algorithm used for the signature depends on the key type: • DSA key - SHA1 • RSA key: MD5 | SHA1 | SHA224 | SHA256 | SHA384 | SHA512 (default is SHA1) • ECDSA key: SHA1 | SHA224 | SHA256 | SHA384 | SHA512 (default is SHA256)
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	PKI CA profile name
Context	admin system security pki cmpv2 cert-request ca-profile *reference*
Tree	ca-profile
Description	This command configures the CA profile that contains the CMPv2 configuration like server URL.
Reference	**state system security pki ca-profile** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

current-certificate *pki-file-name*

Synopsis	Existing imported certificate file to create request

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Context	admin system security pki cmpv2 cert-request current-certificate *pki-file-name*
Tree	current-certificate
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

current-key *pki-file-name*

Synopsis	Imported key file used to create the request
Context	admin system security pki cmpv2 cert-request current-key *pki-file-name*
Tree	current-key
Description	This command specifies the imported key file corresponding to the existing imported certificate file used to create the request.
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-name *string*

Synopsis	FQDNs for the Subject Alternative Name
Context	admin system security pki cmpv2 cert-request domain-name *string*
Tree	domain-name
Description	This command specifies the Fully Qualified Domain Names (FQDNs) for the Subject Alternative Name extension of the requesting certificate, separated by commas.
String length	1 to 512
Introduced	25.3.R2
Platforms	SAR Gen 2

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hash-algorithm *keyword*

Synopsis	Hash algorithm used for the certificate signature
Context	admin system security pki cmpv2 cert-request hash-algorithm *keyword*
Tree	hash-algorithm
Options	md5, sha1, sha224, sha256, sha384, sha512
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address for the Subject Alternative Name
Context	admin system security pki cmpv2 cert-request ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Description	This command specifies an IPv4 or IPv6 address for the Subject Alternative Name extension of the requesting certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

new-key *pki-file-name*

Synopsis	New imported key file to create certificate request
Context	admin system security pki cmpv2 cert-request new-key *pki-file-name*
Tree	new-key
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

save-as *cflash-url*

Synopsis	Full path to save the result certificate
Context	admin system security pki cmpv2 cert-request save-as *cflash-url*

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Tree	save-as
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

subject-dn *string*

Synopsis	Subject of the requesting certificate
Context	admin system security pki cmpv2 cert-request subject-dn *string*
Tree	subject-dn
Description	This command specifies the subject DN attributes used in the certificate request. The format is a comma separated list with the format attr1=val1, attr2=val2, where attrN={C | ST | O | OU | CN}.
String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-request

Synopsis	Clear pending CMPv2 requests
Context	admin system security pki cmpv2 clear-request
Tree	clear-request
Description	When specified, the system clears pending CMPv2 requests for the specified CA. If no requests are pending, the system clears the saved result of the previous request
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	PKI CA profile name
Context	admin system security pki cmpv2 clear-request ca-profile *reference*
Tree	ca-profile

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Description	This command configures the CA profile that contains the CMPv2 configuration like server URL.
Reference	**state system security pki ca-profile** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-registration

Synopsis	Request initial certificate using the CMPv2 protocol
Context	admin system security pki cmpv2 initial-registration
Tree	initial-registration
Description	When specified, the system requests the initial certificate from the CA using the CMPv2 initial registration procedure. The request is authenticated via one of the following methods: • A password and a reference number that was pre-distributed by CA via out-of-band means. The specified password and reference number are not necessarily in the key list configured in the corresponding CA profile. If the key list is not configured in the corresponding CA profile, the system uses the existing password to authenticate the CMPv2 packets from the server if it is password protected. If the key list is configured in the corresponding CA profile and the server does not send SenderKID, the system uses the lexicographical first key in the key list to authenticate the CMPv2 packets from the server in case it is password protected. • A signature signed by the **protection-key** or **key-to-certify**, optionally with the corresponding certificate. If the **protection-key** command is not specified, the system uses the **key-to-certify** configuration for message protection. The hash algorithm used for the signature depends on the key type. Optionally, the system may send a certificate or a chain of certificates in the extraCertsfield. The certificate is specified by the **certificate** command and must include the public key of the key used for message protection. Sending a chain is enabled by specifying the **send-chain** and **with-ca** commands. The CA may not return the certificate immediately, for example, if the request process requires manual intervention. In such cases, the **poll** command can be used to poll the status of the request.
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	PKI CA profile name

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Context	admin system security pki cmpv2 initial-registration ca-profile *reference*
Tree	ca-profile
Description	This command configures the CA profile that contains the CMPv2 configuration like server URL.
Reference	**state system security pki ca-profile** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate *pki-file-name*

Synopsis	Filename of the certificate for the protection key
Context	admin system security pki cmpv2 initial-registration certificate *pki-file-name*
Tree	certificate
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-name *string*

Synopsis	FQDNs for the Subject Alternative Name
Context	admin system security pki cmpv2 initial-registration domain-name *string*
Tree	domain-name
Description	This command specifies the Fully Qualified Domain Names (FQDNs) for the Subject Alternative Name extension of the requesting certificate, separated by commas.
String length	1 to 512
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Hash algorithm used for the certificate signature

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Context	admin system security pki cmpv2 initial-registration hash-algorithm *keyword*
Tree	hash-algorithm
Options	md5, sha1, sha224, sha256, sha384, sha512
Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address for the Subject Alternative Name
Context	admin system security pki cmpv2 initial-registration ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Description	This command specifies an IPv4 or IPv6 address for the Subject Alternative Name extension of the requesting certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-to-certify *pki-file-name*

Synopsis	Name of the key file used to create initial request
Context	admin system security pki cmpv2 initial-registration key-to-certify *pki-file-name*
Tree	key-to-certify
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

password *string*

Synopsis	Password for message protection
Context	admin system security pki cmpv2 initial-registration password *string*
Tree	password

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String length	1 to 64
Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

protection-key *pki-file-name*

Synopsis	Key file used to generate message protection signature
Context	admin system security pki cmpv2 initial-registration protection-key *pki-file-name*
Tree	protection-key
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

reference *string*

Synopsis	Password reference number
Context	admin system security pki cmpv2 initial-registration reference *string*
Tree	reference
String length	1 to 64
Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

save-as *cflash-url*

Synopsis	Full path to save the result certificate
Context	admin system security pki cmpv2 initial-registration save-as *cflash-url*
Tree	save-as
String length	1 to 200

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String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

send-chain

Synopsis	Send a certificate chain
Context	admin system security pki cmpv2 initial-registration send-chain
Tree	send-chain
Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

subject-dn *string*

Synopsis	Subject of the requesting certificate
Context	admin system security pki cmpv2 initial-registration subject-dn *string*
Tree	subject-dn
Description	This command specifies the subject DN attributes used in the certificate request. The format is a comma separated list with the format attr1=val1, attr2=val2, where attrN={C | ST | O | OU | CN}.
String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

with-ca *reference*

Synopsis	Name of CA profile with certificate in the send chain
Context	admin system security pki cmpv2 initial-registration with-ca *reference*
Tree	with-ca
Reference	**state system security pki ca-profile** *named-item*

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Notes	The following elements are part of a mandatory choice: (**certificate**, **hash-algorithm**, **protection-key**, **send-chain**, and **with-ca**) or (**password** and **reference**).
Introduced	25.3.R2
Platforms	SAR Gen 2

key-update

Synopsis	Request new certificate to update existing certificate
Context	admin system security pki cmpv2 key-update
Tree	key-update
Description	When specified, the system requests a new certificate from the CA to update an existing certificate due to reasons such as a key refresh or to replace a compromised key. The CA may not return the certificate immediately, for example, if the request process requires manual intervention. In these cases, the **poll** command can be used to poll the status of the request.
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	PKI CA profile name
Context	admin system security pki cmpv2 key-update ca-profile *reference*
Tree	ca-profile
Description	This command configures the CA profile that contains the CMPv2 configuration like server URL.
Reference	**state system security pki ca-profile** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Hash algorithm used for the certificate signature
Context	admin system security pki cmpv2 key-update hash-algorithm *keyword*
Tree	hash-algorithm
Options	md5, sha1, sha224, sha256, sha384, sha512

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Introduced	25.3.R2
Platforms	SAR Gen 2

new-key *pki-file-name*

Synopsis	Name of new imported key file used for the key update
Context	admin system security pki cmpv2 key-update new-key *pki-file-name*
Tree	new-key
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

old-certificate *pki-file-name*

Synopsis	Name of the old certificate file to be replaced
Context	admin system security pki cmpv2 key-update old-certificate *pki-file-name*
Tree	old-certificate
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

old-key *pki-file-name*

Synopsis	Name of the old key file to be replaced
Context	admin system security pki cmpv2 key-update old-key *pki-file-name*
Tree	old-key
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

save-as *cflash-url*

Synopsis	Full path to save the result certificate file
Context	admin system security pki cmpv2 key-update save-as *cflash-url*
Tree	save-as
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

poll

Synopsis	Poll the CMPv2 server for pending request status
Context	admin system security pki cmpv2 poll
Tree	poll
Description	When specified, the system polls the status of the pending CMPv2 request toward the specified CA. If the response is ready, the system resumes the CMPv2 protocol exchange with the server. SR OS allows only one pending CMP request per CA; therefore, no new request is allowed when a pending request is present.
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	PKI CA profile name
Context	admin system security pki cmpv2 poll ca-profile *reference*
Tree	ca-profile
Description	This command configures the CA profile that contains the CMPv2 configuration like server URL.

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Reference	**state system security pki ca-profile** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

convert-file

Synopsis	Convert imported file between secure and legacy format
Context	admin system security pki convert-file
Tree	convert-file
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Force the conversion
Context	admin system security pki convert-file force
Tree	force
Description	When specified, the system forces the conversion of imported certificates and keys even if files with the same output names exist.
Introduced	25.3.R2
Platforms	SAR Gen 2

format *keyword*

Synopsis	File format to convert to
Context	admin system security pki convert-file format *keyword*
Tree	format
Options	secure, legacy
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**input-file**] *pki-file-name*

Synopsis	Name of the file to be converted
Context	admin system security pki convert-file [input-file] *pki-file-name*
Tree	[input-file]
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**output-file**] *pki-file-name*

Synopsis	Output filename
Context	admin system security pki convert-file [output-file] *pki-file-name*
Tree	[output-file]
Description	This command specifies the output filename. If the filename already exists, the system prompts the user to proceed or aborts if the **force** command is unconfigured.
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

crl-update

Synopsis	Trigger the CRL update for the CA profile
Context	admin system security pki crl-update
Tree	crl-update
Introduced	25.3.R2
Platforms	SAR Gen 2

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ca-profile *reference*

Synopsis	PKI CA profile name
Context	admin system security pki crl-update ca-profile *reference*
Tree	ca-profile
Description	This command configures the CA profile that contains the CMPv2 configuration like server URL.
Reference	**state system security pki ca-profile** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

est

Synopsis	Enter the **est** context
Context	admin system security pki est
Tree	est
Description	Commands in this context configure command options for Enrollment over Secure Transport (EST) protocol operations.
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-certificates

Synopsis	Download CA certificates from the EST server
Context	admin system security pki est ca-certificates
Tree	ca-certificates
Description	This command downloads a Certificate Authority (CA) certificate from an EST server specified by the profile name.
Introduced	25.3.R2
Platforms	SAR Gen 2

est-profile *string*

Synopsis	PKI EST profile name

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Context	admin system security pki est ca-certificates est-profile *string*
Tree	est-profile
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Force an overwrite of the result file
Context	admin system security pki est ca-certificates force
Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

output-url *cflash-url*

Synopsis	Path to the result file
Context	admin system security pki est ca-certificates output-url *cflash-url*
Tree	output-url
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

enroll

Synopsis	Enroll a new certificate with CA with the EST protocol
Context	admin system security pki est enroll
Tree	enroll
Description	When specified, the system enrolls a new certificate with Certificate Authority (CA) by the EST protocol specified with the **est-profile** command with a imported private key specified by the **key** command.

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The **est-profile** commad specifies the authentication between the system and EST server.

The **hash-alg**, **subject-dn**, **domain-name**, and **ip-address** commands are used to generate the Certificate Signing Request (CSR) in the EST request message. The **domain-name** and **ip-address** commands are used as subject alternative names.

If **validate-certificate-chain** is specified, the system validates the chain of result certificate before importing it. The certificate chain is the chain of all certificates from the result certificate to the issuing CA. The result certificate is the new certificate returned by the EST server.

The result certificate is imported and saved with the filename specified by the **output-file** command. If the **force** command is specified, the system overwrites the existing file with same name as the output file.

Introduced	25.3.R2
Platforms	SAR Gen 2

domain-name *string*

Synopsis	FQDNs for the Subject Alternative Name
Context	admin system security pki est enroll domain-name *string*
Tree	domain-name
Description	This command specifies the Fully Qualified Domain Names (FQDNs) for the Subject Alternative Name extension of the requesting certificate, separated by commas.
String length	1 to 512
Introduced	25.3.R2
Platforms	SAR Gen 2

est-profile *string*

Synopsis	PKI EST profile name
Context	admin system security pki est enroll est-profile *string*
Tree	est-profile
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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force

Synopsis	Force an overwrite of the result file
Context	admin system security pki est enroll force
Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Hash algorithm used for the certificate signature
Context	admin system security pki est enroll hash-algorithm *keyword*
Tree	hash-algorithm
Options	md5, sha1, sha224, sha256, sha384, sha512
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address for the Subject Alternative Name
Context	admin system security pki est enroll ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Description	This command specifies an IPv4 or IPv6 address for the Subject Alternative Name extension of the requesting certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

key *cflash-url*

Synopsis	Name of the imported the key file to enroll
Context	admin system security pki est enroll key *cflash-url*
Tree	key
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path)

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	'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

output-file *pki-file-name*

Synopsis	Name of the result file
Context	admin system security pki est enroll output-file *pki-file-name*
Tree	output-file
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

subject-dn *string*

Synopsis	Subject of the requesting certificate
Context	admin system security pki est enroll subject-dn *string*
Tree	subject-dn
Description	This command specifies the subject DN attributes used in the certificate request. The format is a comma separated list with the format attr1=val1, attr2=val2, where attrN={C | ST | O | OU | CN}.
String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

validate-certificate-chain

Synopsis	Validate result certificate chain before importing
Context	admin system security pki est enroll validate-certificate-chain
Tree	validate-certificate-chain
Introduced	25.3.R2
Platforms	SAR Gen 2

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renew

Synopsis	Renew a CA certificate using the EST protocol
Context	admin system security pki est renew
Tree	renew
Description	When specified, the system renews an imported certificate (specified by the **certificate** command) with a Certificate Authority (CA) using the EST protocol specified by the **est-profile** parameter, with an imported private key specified the **key** command. The key can be either the key of the certificate to be renewed or a new key. The authentication between system and EST server is specified by the **est-profile** parameter. The system uses the **hash-alg** command to generate the CSR in the EST request message.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate *cflash-url*

Synopsis	Name of the imported certificate file to renew
Context	admin system security pki est renew certificate *cflash-url*
Tree	certificate
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

est-profile *string*

Synopsis	PKI EST profile name
Context	admin system security pki est renew est-profile *string*
Tree	est-profile
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

force

Synopsis	Force an overwrite of the result file
Context	admin system security pki est renew force
Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Hash algorithm used for the certificate signature
Context	admin system security pki est renew hash-algorithm *keyword*
Tree	hash-algorithm
Options	md5, sha1, sha224, sha256, sha384, sha512
Introduced	25.3.R2
Platforms	SAR Gen 2

key *cflash-url*

Synopsis	Imported key file of the certificate to renew
Context	admin system security pki est renew key *cflash-url*
Tree	key
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

output-file *pki-file-name*

Synopsis	Name of the result file
Context	admin system security pki est renew output-file *pki-file-name*

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Tree	output-file
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

validate-certificate-chain

Synopsis	Validate result certificate chain before importing
Context	admin system security pki est renew validate-certificate-chain
Tree	validate-certificate-chain
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Export an imported file
Context	admin system security pki export
Tree	export
Introduced	25.3.R2
Platforms	SAR Gen 2

format *keyword*

Synopsis	Output file format
Context	admin system security pki export format *keyword*
Tree	format
Options	pkcs12, pkcs7-der, pkcs7-pem, pem, der
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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input-file *pki-file-name*

Synopsis	Name of the file to be exported
Context	admin system security pki export input-file *pki-file-name*
Tree	input-file
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-file *pki-file-name*

Synopsis	Name of the key file to be exported
Context	admin system security pki export key-file *pki-file-name*
Tree	key-file
Description	This command specifies the name of the key file to be exported when the output format may contain the certificate and the key.
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

output-url *cflash-url*

Synopsis	Full path to export the result file
Context	admin system security pki export output-url *cflash-url*
Tree	output-url
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

password *string*

Synopsis	Password used to encrypt the output file
Context	admin system security pki export password *string*
Tree	password
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Type of file to be exported
Context	admin system security pki export type *keyword*
Tree	type
Options	certificate, key, crl
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-csr

Synopsis	Generate a PKCS#10 certificate signing request file
Context	admin system security pki generate-csr
Tree	generate-csr
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-name *string*

Synopsis	FQDNs for the Subject Alternative Name
Context	admin system security pki generate-csr domain-name *string*
Tree	domain-name

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Description	This command specifies the Fully Qualified Domain Names (FQDNs) for the Subject Alternative Name extension of the requesting certificate, separated by commas.
String length	1 to 512
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Hash algorithm used for the certificate signature
Context	admin system security pki generate-csr hash-algorithm *keyword*
Tree	hash-algorithm
Options	md5, sha1, sha224, sha256, sha384, sha512
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address for the Subject Alternative Name
Context	admin system security pki generate-csr ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Description	This command specifies an IPv4 or IPv6 address for the Subject Alternative Name extension of the requesting certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-url *cflash-url*

Synopsis	Full path to the key file used to generate the request
Context	admin system security pki generate-csr key-url *cflash-url*
Tree	key-url
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

output-url *cflash-url*

Synopsis	Full path to result certificate signing request file
Context	admin system security pki generate-csr output-url *cflash-url*
Tree	output-url
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

subject-dn *string*

Synopsis	Subject of the requesting certificate
Context	admin system security pki generate-csr subject-dn *string*
Tree	subject-dn
Description	This command specifies the subject DN attributes used in the certificate request. The format is a comma separated list with the format attr1=val1, attr2=val2, where attrN={C | ST | O | OU | CN}.
String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

use-printable

Synopsis	Force ASCII encoding for input subject DN attributes
Context	admin system security pki generate-csr use-printable
Tree	use-printable
Description	When specified, the system forces the use of ASCII encoding for the input subject DN attributes. Otherwise, the system uses UTF-8 encoding.
Introduced	25.3.R2

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Platforms	SAR Gen 2

generate-keypair

Synopsis	Generate PKI key pair
Context	admin system security pki generate-keypair
Tree	generate-keypair
Description	When specified, the system generates an RSA, DSA, or ECDSA private/public key pair file
Introduced	25.3.R2
Platforms	SAR Gen 2

dsa-key-size *number*

Synopsis	Length of the DSA key to be generated
Context	admin system security pki generate-keypair dsa-key-size *number*
Tree	dsa-key-size
Range	512 to 8192
Default	2048
Notes	The following elements are part of a mandatory choice: **dsa-key-size**, **ecdsa-curve**, or **rsa-key-size**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ecdsa-curve *keyword*

Synopsis	Elliptic curve of the ECDSA key to be generated
Context	admin system security pki generate-keypair ecdsa-curve *keyword*
Tree	ecdsa-curve
Options	secp256r1, secp384r1, secp521r1
Default	secp256r1
Notes	The following elements are part of a mandatory choice: **dsa-key-size**, **ecdsa-curve**, or **rsa-key-size**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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rsa-key-size *number*

Synopsis	Length of the RSA key to be generated
Context	admin system security pki generate-keypair rsa-key-size *number*
Tree	rsa-key-size
Range	512 to 8192
Default	2048
Notes	The following elements are part of a mandatory choice: **dsa-key-size**, **ecdsa-curve**, or **rsa-key-size**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**save-path**] *cflash-url*

Synopsis	Full path to save the result key file
Context	admin system security pki generate-keypair [save-path] *cflash-url*
Tree	[save-path]
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Import a certificate related file
Context	admin system security pki import
Tree	import
Description	When specified, the system imports an input file (key/certificate/CRL) to be used by SROS applications. The following summarizes the supported formats: • Certificate - PKCS #12, PKCS #7 PEM encoded, PKCS #7 DER encoded, PEM, DER • Key - PKCS #12, PEM, DER • CRL - PKCS #7 PEM encoded, PKCS #7 DER encoded, PEM, DER

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Introduced	25.3.R2
Platforms	SAR Gen 2

format *keyword*

Synopsis	Output file format
Context	admin system security pki import format *keyword*
Tree	format
Options	pkcs12, pkcs7-der, pkcs7-pem, pem, der
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

input-url *cflash-url*

Synopsis	Full path to the file to import
Context	admin system security pki import input-url *cflash-url*
Tree	input-url
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

output-file *pki-file-name*

Synopsis	Name of the result file
Context	admin system security pki import output-file *pki-file-name*
Tree	output-file
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

password *string*

Synopsis	Password used to encrypt the output file
Context	admin system security pki import password *string*
Tree	password
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Type of file to be exported
Context	admin system security pki import type *keyword*
Tree	type
Options	certificate, key, crl
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

validate-certificate-chain

Synopsis	Validate the certificate chain
Context	admin system security pki import validate-certificate-chain
Tree	validate-certificate-chain
Description	When specified, the system validates the result certificate chain before it is imported.
Introduced	25.3.R2
Platforms	SAR Gen 2

reload

Synopsis	Reload key or certificate files
Context	admin system security pki reload
Tree	reload

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Description	When specified, the system reloads the key or certificate files for the specified application.This command can be used to ensure a changed imported file takes effect.
Introduced	25.3.R2
Platforms	SAR Gen 2

application *keyword*

Synopsis	Application to be reloaded
Context	admin system security pki reload application *keyword*
Tree	application
Options	ipsec
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate *pki-file-name*

Synopsis	Name of the certificate file to reload
Context	admin system security pki reload certificate *pki-file-name*
Tree	certificate
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

key *pki-file-name*

Synopsis	Name of the key file to reload
Context	admin system security pki reload key *pki-file-name*
Tree	key
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

show

Synopsis	Enter the **show** context
Context	admin system security pki show
Tree	show
Description	Commands in this context include operations to display the PKI file.
Introduced	25.3.R2
Platforms	SAR Gen 2

file-content

Synopsis	Display content of certificate related files
Context	admin system security pki show file-content
Tree	file-content
Introduced	25.3.R2
Platforms	SAR Gen 2

[**file-path**] *cflash-url*

Synopsis	Full path to the file to display
Context	admin system security pki show file-content [file-path] *cflash-url*
Tree	[file-path]
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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format *keyword*

Synopsis	Format of the file to display
Context	admin system security pki show file-content format *keyword*
Tree	format
Options	pkcs10, pkcs12, pkcs7-der, pkcs7-pem, pem, der
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

password *string*

Synopsis	File decryption password
Context	admin system security pki show file-content password *string*
Tree	password
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Type of the file to display
Context	admin system security pki show file-content type *keyword*
Tree	type
Options	certificate, key, crl, csr
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update-certificate

Synopsis	Update End Entity certificate
Context	admin system security pki update-certificate
Tree	update-certificate

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Description	When specified, the system triggers an update for the specified certificate according to the corresponding **configure system security pki certificate-auto-update** configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate *reference*

Synopsis	Name of the certificate file to be updated
Context	admin system security pki update-certificate certificate *reference*
Tree	certificate
Reference	**state system security pki certificate-auto-update** *pki-file-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

secure-boot

Synopsis	Enter the **secure-boot** context
Context	admin system security secure-boot
Tree	secure-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

activate

Synopsis	Activate secure boot on a CPM
Context	admin system security secure-boot activate
Tree	activate
Description	This command activates Secure Boot to enforce digital signature verification of the software on every boot. After Secure Boot is activated on a CPM, the capability is permanently enabled and cannot be disabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

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card *reference*

Synopsis	CPM slot where secure boot is activated or modified
Context	admin system security secure-boot activate card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

confirmation-code *string-not-all-spaces*

Synopsis	Confirmation code
Context	admin system security secure-boot activate confirmation-code *string-not-all-spaces*
Tree	confirmation-code
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

serial-number *string-not-all-spaces*

Synopsis	CPM card serial number which secure-boot activates
Context	admin system security secure-boot activate serial-number *string-not-all-spaces*
Tree	serial-number
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

revoke-key

Synopsis	Revoke secure boot keys
Context	admin system security secure-boot revoke-key
Tree	revoke-key

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Introduced	25.3.R2
Platforms	SAR Gen 2

card *reference*

Synopsis	CPM slot where secure boot is activated or modified
Context	admin system security secure-boot revoke-key card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

confirmation-code *string-not-all-spaces*

Synopsis	Confirmation code
Context	admin system security secure-boot revoke-key confirmation-code *string-not-all-spaces*
Tree	confirmation-code
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

serial-number *string-not-all-spaces*

Synopsis	CPM card serial number which secure-boot activates
Context	admin system security secure-boot revoke-key serial-number *string-not-all-spaces*
Tree	serial-number
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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update-key

Synopsis	Update secure boot keys
Context	admin system security secure-boot update-key
Tree	update-key
Introduced	25.3.R2
Platforms	SAR Gen 2

card *reference*

Synopsis	CPM slot where secure boot is activated or modified
Context	admin system security secure-boot update-key card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

confirmation-code *string-not-all-spaces*

Synopsis	Confirmation code
Context	admin system security secure-boot update-key confirmation-code *string-not-all-spaces*
Tree	confirmation-code
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

serial-number *string-not-all-spaces*

Synopsis	CPM card serial number which secure-boot activates
Context	admin system security secure-boot update-key serial-number *string-not-all-spaces*
Tree	serial-number
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

software-image *cflash-and-url*

Synopsis	Location of the target software image
Context	admin system security secure-boot update-key software-image *cflash-and-url*
Tree	software-image
String length	1 to 180
Notes	The following elements are part of a mandatory choice: **software-image** or **software-repository**.
Introduced	25.3.R2
Platforms	SAR Gen 2

validate

Synopsis	Validate software signature for the specified image
Context	admin system security secure-boot validate
Tree	validate
Introduced	25.3.R2
Platforms	SAR Gen 2

software-image *cflash-and-url*

Synopsis	Location of the target software image
Context	admin system security secure-boot validate software-image *cflash-and-url*
Tree	software-image
String length	1 to 180
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

storage-encryption

Synopsis	Enter the **storage-encryption** context

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Context	admin system security storage-encryption
Tree	storage-encryption
Description	Commands in this context are used to manage storage encryption such as the primary secret for hash3 configuration shared secrets.
Introduced	26.7.R1
Platforms	SAR Gen 2

primary-secret

Synopsis	Enter the **primary-secret** context
Context	admin system security storage-encryption primary-secret
Tree	primary-secret
Description	Commands in this context manage the base secret used for encryption of items such as hash3 configuration shared secrets.
Introduced	26.7.R1
Platforms	SAR Gen 2

set-secret

Synopsis	Set or change the primary secret
Context	admin system security storage-encryption primary-secret set-secret
Tree	set-secret
Description	This command sets or changes the primary secret used as a base secret for encryption of items, such as hash3 configuration shared secrets. The user is prompted to enter the secret twice. If a primary secret is already set on this system, the user must enter the old secret to change it. Setting or changing the primary secret will cause the main configuration to be saved to disk. If the user is setting the primary secret on a replacement chassis as part of a chassis failure recovery, it is essential to run this command on the new chassis before copying the old configuration file from the failed chassis to the new chassis.
Introduced	26.7.R1
Platforms	SAR Gen 2

system-password

Synopsis	Change a local system password

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Context	admin system security system-password
Tree	system-password
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-password

Synopsis	Administrative password
Context	admin system security system-password admin-password
Tree	admin-password
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

telemetry

Synopsis	Enter the **telemetry** context
Context	admin system telemetry
Tree	telemetry
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc

Synopsis	Enter the **grpc** context
Context	admin system telemetry grpc
Tree	grpc
Introduced	25.3.R2
Platforms	SAR Gen 2

cancel

Synopsis	Cancel the gRPC dynamic telemetry subscription
Context	admin system telemetry grpc cancel
Tree	cancel

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Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Cancel gRPC dynamic telemetry for all subscriptions
Context	admin system telemetry grpc cancel all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or **subscription-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subscription-id *reference*

Synopsis	ID of the telemetry subscription to cancel
Context	admin system telemetry grpc cancel subscription-id *reference*
Tree	subscription-id
Reference	**state system telemetry grpc subscription** *number*
Notes	The following elements are part of a mandatory choice: **all** or **subscription-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tech-support

Synopsis	Save technical support information to a file
Context	admin tech-support
Tree	tech-support
Introduced	25.3.R2
Platforms	SAR Gen 2

[**url**] *url*

Synopsis	URL to save technical support information
Context	admin tech-support [url] *url*
Tree	[url]

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String length	1 to 180
Introduced	25.3.R2
Platforms	SAR Gen 2

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2.2 environment commands

See “Environment commands” in the *7705 SAR Gen 2 MD-CLI User Guide* for more information.

```
environment
   – command-alias
      – alias string
         – admin-state keyword
         – cli-command string
         – description string-not-all-spaces
         – mount-point (keyword | string)
         – python-script reference
   – command-completion
      – enter boolean
      – space boolean
      – tab boolean
   – commit-options
      – comment boolean
      – confirm boolean
   – console
      – length number
      – width number
   – history
      – recall boolean
      – size number
   – info-output
      – always-display
         – admin-state boolean
   – match-highlight
      – admin-state keyword
      – style keyword
   – message-severity-level
      – cli keyword
   – more boolean
   – progress-indicator
      – admin-state keyword
      – delay number
      – type keyword
   – prompt
      – context boolean
      – newline boolean
      – timestamp boolean
      – uncommitted-changes-indicator boolean
   – python
      – memory-reservation number
      – minimum-available-memory number
      – timeout number
   – time-display keyword
   – time-format keyword
```


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2.2.1 environment command descriptions

environment

Synopsis	Configure the environment settings for this session
Context	environment
Tree	environment
Introduced	25.3.R2
Platforms	SAR Gen 2

command-alias

Synopsis	Enter the **command-alias** context
Context	environment command-alias
Tree	command-alias
Description	Commands in this context create aliases to existing MD-CLI commands or to Python scripts. Aliases may be mounted for use globally or for selected context paths. Arguments and output modifiers may be provided to aliases at configuration or run time.
Introduced	25.3.R2
Platforms	SAR Gen 2

alias [alias-name] *string*

Synopsis	Enter the **alias** list instance
Context	environment command-alias alias *string*
Tree	alias
Description	Commands in this context create aliases to existing MD-CLI commands or to Python applications. Aliases may be mounted for use globally or for selected context paths. Arguments and output modifiers may be provided to aliases at configuration or run time.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**alias-name**] *string*

Synopsis	Alias name
Context	environment command-alias alias *string*
Tree	alias
String length	1 to 64
String format	must only contain alpha-numeric characters, underscore or hyphen (not as the first character)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the alias
Context	environment command-alias alias *string* admin-state *keyword*
Tree	admin-state
Description	This command controls the administrative state of the MD-CLI alias. MD-CLI aliases that are administratively disabled cannot be executed, do not autocomplete in operational mode, and do not appear in **?** help.
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-command *string*

Synopsis	CLI command to run when executing the alias
Context	environment command-alias alias *string* cli-command *string*
Tree	cli-command
String length	1 to 255
Notes	The following elements are part of a mandatory choice: **cli-command** or **python-script**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *string-not-all-spaces*

Synopsis	Text description
Context	environment command-alias alias *string* description *string-not-all-spaces*
Tree	description
String length	1 to 110
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mount-point [path] *(keyword | string)*

Synopsis	Add a list entry for **mount-point**
Context	environment command-alias alias *string* mount-point *(keyword | string)*
Tree	mount-point
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**path**] *(keyword | string)*

Synopsis	Mount point where the alias is available
Context	environment command-alias alias *string* mount-point *(keyword | string)*
Tree	mount-point
String length	1 to 255
Options	global
String format	must start with forward slash
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

python-script *reference*

Synopsis	Python script to run when executing the alias

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Context	environment command-alias alias *string* python-script *reference*
Tree	python-script
Reference	**state python python-script** *named-item*
Notes	The following elements are part of a mandatory choice: **cli-command** or **python-script**.
Introduced	26.7.R1
Platforms	SAR Gen 2

command-completion

Synopsis	Enter the **command-completion** context
Context	environment command-completion
Tree	command-completion
Introduced	25.3.R2
Platforms	SAR Gen 2

enter *boolean*

Synopsis	Complete the command when the Enter key is pressed
Context	environment command-completion enter *boolean*
Tree	enter
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

space *boolean*

Synopsis	Complete the command when the Space key is pressed
Context	environment command-completion space *boolean*
Tree	space
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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tab *boolean*

Synopsis	Complete the command when the Tab key is pressed
Context	environment command-completion tab *boolean*
Tree	tab
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

commit-options

Synopsis	Enter the **commit-options** context
Context	environment commit-options
Tree	commit-options
Introduced	25.3.R2
Platforms	SAR Gen 2

comment *boolean*

Synopsis	Require a commit comment when committing configuration
Context	environment commit-options comment *boolean*
Tree	comment
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

confirm *boolean*

Synopsis	Require confirmed commit when committing configuration
Context	environment commit-options confirm *boolean*
Tree	confirm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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console

Synopsis	Enter the **console** context
Context	environment console
Tree	console
Introduced	25.3.R2
Platforms	SAR Gen 2

length *number*

Synopsis	Number of lines displayed on the console
Context	environment console length *number*
Tree	length
Range	24 to 512
Default	24
Introduced	25.3.R2
Platforms	SAR Gen 2

width *number*

Synopsis	Number of columns displayed on the console
Context	environment console width *number*
Tree	width
Range	80 to 512
Default	80
Introduced	25.3.R2
Platforms	SAR Gen 2

history

Synopsis	Enter the **history** context
Context	environment history
Tree	history
Introduced	25.3.R2
Platforms	SAR Gen 2

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recall *boolean*

Synopsis	Allow command history recall and search execution
Context	environment history recall *boolean*
Tree	recall
Description	When configured to **true**, the command history recall (**!**), substitution (**!$**), display (**:p**, **Esc+.**), and backward search (**Ctrl-R**) are enabled. When configured to **false**, the command history can be displayed using the **history** command, but commands in the history cannot be executed.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

size *number*

Synopsis	Command history size
Context	environment history size *number*
Tree	size
Description	This command specifies the maximum size of the command history. A value of 0 disables the command history.
Range	0 to 1000
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

info-output

Synopsis	Enter the **info-output** context
Context	environment info-output
Tree	info-output
Introduced	25.3.R2
Platforms	SAR Gen 2

always-display

Synopsis	Enter the **always-display** context

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Context	environment info-output always-display
Tree	always-display
Description	Commands in this context specify elements that are always displayed, regardless of whether they are set to their default value.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *boolean*

Synopsis	Always display admin-state elements
Context	environment info-output always-display admin-state *boolean*
Tree	admin-state
Description	When configured to **true**, the values of the **admin-state** elements in **info** output (without the **detail** option) are always displayed, even if they are the default values.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

match-highlight

Synopsis	Enter the **match-highlight** context
Context	environment match-highlight
Tree	match-highlight
Introduced	26.3.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of match highlighting
Context	environment match-highlight admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	SAR Gen 2

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style *keyword*

Synopsis	Match highlighting style
Context	environment match-highlight style *keyword*
Tree	style
Options	bold, underline, reverse
Max. instances	3
Introduced	26.3.R1
Platforms	SAR Gen 2

message-severity-level

Synopsis	Enter the **message-severity-level** context
Context	environment message-severity-level
Tree	message-severity-level
Introduced	25.3.R2
Platforms	SAR Gen 2

cli *keyword*

Synopsis	Message severity threshold for CLI messages
Context	environment message-severity-level cli *keyword*
Tree	cli
Options	warning, info
Default	info
Introduced	25.3.R2
Platforms	SAR Gen 2

more *boolean*

Synopsis	Activate the pager when output is longer than a screen
Context	environment more *boolean*
Tree	more
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

progress-indicator

Synopsis	Enter the **progress-indicator** context
Context	environment progress-indicator
Tree	progress-indicator
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the progress indicator
Context	environment progress-indicator admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

delay *number*

Synopsis	Delay before the progress indicator is displayed
Context	environment progress-indicator delay *number*
Tree	delay
Range	0 to 10000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Progress indicator output style

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Context	environment progress-indicator type *keyword*
Tree	type
Options	dots
Default	dots
Introduced	25.3.R2
Platforms	SAR Gen 2

prompt

Synopsis	Enter the **prompt** context
Context	environment prompt
Tree	prompt
Introduced	25.3.R2
Platforms	SAR Gen 2

context *boolean*

Synopsis	Show the current command context in the prompt
Context	environment prompt context *boolean*
Tree	context
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

newline *boolean*

Synopsis	Add a new line before every prompt line
Context	environment prompt newline *boolean*
Tree	newline
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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timestamp *boolean*

Synopsis	Show the timestamp before the first prompt line
Context	environment prompt timestamp *boolean*
Tree	timestamp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncommitted-changes-indicator *boolean*

Synopsis	Show an asterisk (*) when uncommitted changes exist
Context	environment prompt uncommitted-changes-indicator *boolean*
Tree	uncommitted-changes-indicator
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

python

Synopsis	Enter the **python** context
Context	environment python
Tree	python
Introduced	25.3.R2
Platforms	SAR Gen 2

memory-reservation *number*

Synopsis	Memory reserved per Python interpreter
Context	environment python memory-reservation *number*
Tree	memory-reservation
Range	1 to 500
Units	megabytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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minimum-available-memory *number*

Synopsis	Minimum memory requirement to run a Python interpreter
Context	environment python minimum-available-memory *number*
Tree	minimum-available-memory
Range	5 to 50
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Maximum run time before a Python application is stopped
Context	environment python timeout *number*
Tree	timeout
Range	30 to 86400
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

time-display *keyword*

Synopsis	Time zone to display time
Context	environment time-display *keyword*
Tree	time-display
Description	This command configures the time zone for a timestamp displayed in outputs, such as event logs and **show** commands for the current CLI session. In event logs, the selected time is used to control the timestamps in the CLI output of **show log log-id** and in YANG state in the /state/log/log-id branch (for logs such as session, cli, memory, SNMP, and NETCONF). Also see the **configure log log-id time-format** command.
Options	local, utc
Default	local
Introduced	25.3.R2

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Platforms	SAR Gen 2

time-format *keyword*

Synopsis	Format to display the date and time
Context	environment time-format *keyword*
Tree	time-format
Description	This command specifies the format of the time display in the prompt, configuration, state, and certain **show** command output in the current CLI session.
Options	iso-8601, rfc-1123, rfc-3339
Default	rfc-3339
Introduced	25.3.R2
Platforms	SAR Gen 2

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2.3 file commands

See “File management” in the *7705 SAR Gen 2 Basic System Configuration Guide* for more information.

```
file
   – change-directory
      – router-instance string
      – [url] (ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)
   – checksum
      – router-instance string
      – [type] keyword
      – [url] (ftp-tftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)
   – copy
      – client-tls-profile string
      – [destination-url] (ftp-tftp-url | http-url-loose | scp-url | sftp-url | sat-url |
 cflash-url | string-not-all-spaces)
      – direct-http
      – force
      – proxy http-url
      – recursive
      – router-instance string
      – [source-url] (ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url |
 string-not-all-spaces)
   – disable
      – active
      – cflash-id cflash-id
      – standby
   – edit
      – [url] (sat-url | cflash-url | string-not-all-spaces)
   – enable
      – active
      – cflash-id cflash-id
      – standby
   – format
      – [cflash-id] cflash-id
   – list
      – reverse
      – router-instance string
      – [sort-order] keyword
      – [url] (ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)
   – make-directory
      – router-instance string
      – [url] (ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)
   – move
      – client-tls-profile string
      – [destination-url] (ftp-url | http-url-loose | sftp-url | sat-url | cflash-url |
 string-not-all-spaces)
      – direct-http
      – force
      – proxy http-url
      – router-instance string
      – [source-url] (ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-
all-spaces)
   – permission
      – [attribute] keyword
      – [url] (sat-url | cflash-url | string-not-all-spaces)
   – remove
      – client-tls-profile string
      – direct-http
      – force
      – proxy http-url
```


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file remove router-instance

```
      – router-instance string
      – [url] (ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-
spaces)
   – remove-directory
      – force
      – recursive
      – router-instance string
      – [url] (ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)
   – repair
      – [cflash-id] cflash-id
   – secure-erase
      – [cflash-id] cflash-id
   – show
      – client-tls-profile string
      – direct-http
      – proxy http-url
      – router-instance string
      – [url] (ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-
all-spaces)
   – unzip
      – create-destination
      – [destination-url] (sat-url | cflash-url | string-not-all-spaces)
      – force
      – list
      – router-instance string
      – [source-url] (ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url |
 string-not-all-spaces)
   – version
      – [url] (sat-url | cflash-url | string-not-all-spaces | ftp-tftp-url)
```


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2.3.1 file command descriptions

file

Synopsis	Perform file operations
Context	file
Tree	file
Description	Commands in this context execute file management operations.
Introduced	25.3.R2
Platforms	SAR Gen 2

change-directory

Synopsis	Change the working directory
Context	file change-directory
Tree	change-directory
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file change-directory router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**url**] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	New working directory URL
Context	file change-directory [url] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 180 (*ftp-url*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)

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Default	.
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

checksum

Synopsis	Compute and display checksums
Context	file checksum
Tree	checksum
Description	This command computes and displays an image file or a checksum for a file.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file checksum router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[type] *keyword*

Synopsis	Checksum option type
Context	file checksum [type] *keyword*
Tree	[type]
Options	image, md5, sha256

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**url**] *(ftp-tftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	File URL
Context	file checksum [url] *(ftp-tftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 199 (*ftp-tftp-url*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

copy

Synopsis	Copy files
Context	file copy
Tree	copy
Introduced	25.3.R2
Platforms	SAR Gen 2

client-tls-profile *string*

Synopsis	Connect over HTTP with a client TLS profile
Context	file copy client-tls-profile *string*

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Tree	client-tls-profile
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**destination-url**] *(ftp-tftp-url | http-url-loose | scp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Destination URL or '.' for the working directory
Context	file copy [destination-url] *(ftp-tftp-url | http-url-loose | scp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[destination-url]
String length	1 to 199 (*ftp-tftp-url*) 1 to 180 (*http-url-loose*, *scp-url*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme 'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'scp-url' must be scp:// with optional user:pass@, hostname and path (e.g. scp://user:pass@hostname.domain/path/file) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

direct-http

Synopsis	Allow direct HTTP connection, do not follow redirects
Context	file copy direct-http
Tree	direct-http
Introduced	25.3.R2

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Platforms	SAR Gen 2

force

Synopsis	Force copy without prompting before overwriting
Context	file copy force
Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy *http-url*

Synopsis	Connect over HTTP with a proxy
Context	file copy proxy *http-url*
Tree	proxy
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

recursive

Synopsis	Copy sub-directories encountered at the source URL
Context	file copy recursive
Tree	recursive
Description	This command recursively copies files and directories. If files or directories already exist, the operator is prompted to overwrite them. When the **force** command is enabled, a positive response to the overwrite prompts is assumed, and the operator is not prompted for confirmation. The existing files or directories are overwritten.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file copy router-instance *string*
Tree	router-instance

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-url**] *(ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Source URL
Context	file copy [source-url] *(ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[source-url]
String length	1 to 199 (*ftp-tftp-url*) 1 to 180 (*http-url-loose*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme 'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

disable

Synopsis	Disable storage devices
Context	file disable
Tree	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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active

Synopsis	Disable all devices on the active CPM
Context	file disable active
Tree	active
Notes	The following elements are part of a choice: **active**, **cflash-id**, or **standby**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cflash-id *cflash-id*

Synopsis	Disable the storage device
Context	file disable cflash-id *cflash-id*
Tree	cflash-id
String length	4 to 6
String format	'cflash-id' must be cf1-4: or cf1-4-A-D: (e.g. cf1: or cf2-B:)
Notes	The following elements are part of a choice: **active**, **cflash-id**, or **standby**.
Introduced	25.3.R2
Platforms	SAR Gen 2

standby

Synopsis	Disable all devices on the standby CPM
Context	file disable standby
Tree	standby
Notes	The following elements are part of a choice: **active**, **cflash-id**, or **standby**.
Introduced	25.3.R2
Platforms	SAR Gen 2

edit

Synopsis	Edit files with the text editor
Context	file edit
Tree	edit
Description	This command allows users to edit files with the text editor.

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See "Text editor" in the *7705 SAR Gen 2 Basic System Configuration Guide* for more information.

Introduced 25.3.R2

Platforms SAR Gen 2

[**url**] *(sat-url | cflash-url | string-not-all-spaces)*

Synopsis File URL

Context file edit [url] *(sat-url | cflash-url | string-not-all-spaces)*

Tree [url]

String length 1 to 200

String format 'sat-url' must start with sat: (e.g. sat:path/to/file)
'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path)
'cflash-url' must have each path segment at most 99 characters
'string-not-all-spaces' must contain at least one non-space character

Notes This element is mandatory.

Introduced 25.3.R2

Platforms SAR Gen 2

enable

Synopsis Enable storage devices

Context file enable

Tree enable

Introduced 25.3.R2

Platforms SAR Gen 2

active

Synopsis Enable all devices on the active CPM

Context file enable active

Tree active

Notes The following elements are part of a choice: **active**, **cflash-id**, or **standby**.

Introduced 25.3.R2

Platforms SAR Gen 2

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cflash-id *cflash-id*

Synopsis	Enable the compact flash device
Context	file enable cflash-id *cflash-id*
Tree	cflash-id
String length	4 to 6
String format	'cflash-id' must be cf1-4: or cf1-4-A-D: (e.g. cf1: or cf2-B:)
Notes	The following elements are part of a choice: **active**, **cflash-id**, or **standby**.
Introduced	25.3.R2
Platforms	SAR Gen 2

standby

Synopsis	Enable all devices on the standby CPM
Context	file enable standby
Tree	standby
Notes	The following elements are part of a choice: **active**, **cflash-id**, or **standby**.
Introduced	25.3.R2
Platforms	SAR Gen 2

format

Synopsis	Format a storage device
Context	file format
Tree	format
Description	This command formats a storage device with a new file system without erasing the data. The device must be administratively disabled first.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cflash-id**] *cflash-id*

Synopsis	Format a storage device
Context	file format [cflash-id] *cflash-id*
Tree	[cflash-id]

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String length	4 to 6
String format	'cflash-id' must be cf1-4: or cf1-4-A-D: (e.g. cf1: or cf2-B:)
Introduced	25.3.R2
Platforms	SAR Gen 2

list

Synopsis	List directory contents
Context	file list
Tree	list
Introduced	25.3.R2
Platforms	SAR Gen 2

reverse

Synopsis	List files in reverse sort order
Context	file list reverse
Tree	reverse
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file list router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sort-order**] *keyword*

Synopsis	Sort order for the directory
Context	file list [sort-order] *keyword*
Tree	[sort-order]
Options	date, name, size

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**url**] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Location of the directory to be listed
Context	file list [url] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 180 (*ftp-url*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
Default	.
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

make-directory

Synopsis	Make a directory
Context	file make-directory
Tree	make-directory
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file make-directory router-instance *string*
Tree	router-instance

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Introduced	25.10.R1
Platforms	SAR Gen 2

[**url**] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Directory location
Context	file make-directory [url] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 180 (*ftp-url*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

move

Synopsis	Move or rename files or directories
Context	file move
Tree	move
Introduced	25.3.R2
Platforms	SAR Gen 2

client-tls-profile *string*

Synopsis	Connect over HTTP with a client TLS profile
Context	file move client-tls-profile *string*
Tree	client-tls-profile

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String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**destination-url**] *(ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Destination URL or '.' for the working directory
Context	file move [destination-url] *(ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[destination-url]
String length	1 to 180 (*ftp-url*, *http-url-loose*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file) 'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

direct-http

Synopsis	Allow direct HTTP connection, do not follow redirects
Context	file move direct-http
Tree	direct-http
Introduced	25.3.R2
Platforms	SAR Gen 2

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force

Synopsis	Force move without prompting before overwriting
Context	file move force
Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy *http-url*

Synopsis	Connect over HTTP with a proxy
Context	file move proxy *http-url*
Tree	proxy
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file move router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**source-url**] *(ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Source URL
Context	file move [source-url] *(ftp-url* | *http-url-loose* | *sftp-url* | *sat-url* | *cflash-url* | *string-not-all-spaces)*
Tree	[source-url]
String length	1 to 180 (*ftp-url*, *http-url-loose*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file)

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	'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

permission

Synopsis	Show or set file permissions
Context	file permission
Tree	permission
Introduced	25.3.R2
Platforms	SAR Gen 2

[**attribute**] *keyword*

Synopsis	File permission
Context	file permission [attribute] *keyword*
Tree	[attribute]
Options	read-only, read-write
Introduced	25.3.R2
Platforms	SAR Gen 2

[**url**] *(sat-url | cflash-url | string-not-all-spaces)*

Synopsis	File URL to set permissions
Context	file permission [url] *(sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 200
String format	'sat-url' must start with sat: (e.g. sat:path/to/file)

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'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path)
'cflash-url' must have each path segment at most 99 characters
'string-not-all-spaces' must contain at least one non-space character

Introduced	25.3.R2
Platforms	SAR Gen 2

remove

Synopsis	Remove files
Context	file remove
Tree	remove
Introduced	25.3.R2
Platforms	SAR Gen 2

client-tls-profile *string*

Synopsis	Connect over HTTP with a client TLS profile
Context	file remove client-tls-profile *string*
Tree	client-tls-profile
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

direct-http

Synopsis	Allow direct HTTP connection, do not follow redirects
Context	file remove direct-http
Tree	direct-http
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Force removal without prompting
Context	file remove force

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Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy *http-url*

Synopsis	Connect over HTTP with a proxy
Context	file remove proxy *http-url*
Tree	proxy
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file remove router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**url**] *(ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	File URL
Context	file remove [url] *(ftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 180 (*ftp-url*, *http-url-loose*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file) 'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file)

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	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

remove-directory

Synopsis	Remove directories
Context	file remove-directory
Tree	remove-directory
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Force removal without prompting
Context	file remove-directory force
Tree	force
Introduced	25.3.R2
Platforms	SAR Gen 2

recursive

Synopsis	Remove directory and contents recursively
Context	file remove-directory recursive
Tree	recursive
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file remove-directory router-instance *string*

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Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**url**] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Directory URL
Context	file remove-directory [url] *(ftp-url | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 180 (*ftp-url*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-url' must not contain illegal characters 'ftp-url' must be ftp:// with optional user:pass@, hostname and path (e.g. ftp://user:pass@hostname.domain/path/file) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

repair

Synopsis	Repair a storage device file system
Context	file repair
Tree	repair
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cflash-id**] *cflash-id*

Synopsis	Storage device to repair
Context	file repair [cflash-id] *cflash-id*

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Tree	[cflash-id]
String length	4 to 6
String format	'cflash-id' must be cf1-4: or cf1-4-A-D: (e.g. cf1: or cf2-B:)
Introduced	25.3.R2
Platforms	SAR Gen 2

secure-erase

Synopsis	Secure erase and format a storage device
Context	file secure-erase
Tree	secure-erase
Description	This command secure erases and formats a storage device with a new file system. The device must be administratively disabled first.
Introduced	25.10.R1
Platforms	SAR Gen 2

[**cflash-id**] *cflash-id*

Synopsis	Storage device to secure erase and format
Context	file secure-erase [cflash-id] *cflash-id*
Tree	[cflash-id]
Description	[
String length	4 to 6
String format	'cflash-id' must be cf1-4: or cf1-4-A-D: (e.g. cf1: or cf2-B:)
Introduced	25.10.R1
Platforms	SAR Gen 2

show

Synopsis	Display the contents of a file
Context	file show
Tree	show
Introduced	25.3.R2
Platforms	SAR Gen 2

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client-tls-profile *string*

Synopsis	Connect over HTTP with a client TLS profile
Context	file show client-tls-profile *string*
Tree	client-tls-profile
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

direct-http

Synopsis	Allow direct HTTP connection, do not follow redirects
Context	file show direct-http
Tree	direct-http
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy *http-url*

Synopsis	Connect over HTTP with a proxy
Context	file show proxy *http-url*
Tree	proxy
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file show router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

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[**url**] *(ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	File URL
Context	file show [url] *(ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*
Tree	[url]
String length	1 to 199 (*ftp-tftp-url*) 1 to 180 (*http-url-loose*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme 'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unzip

Synopsis	Unzip files
Context	file unzip
Tree	unzip
Introduced	25.3.R2
Platforms	SAR Gen 2

create-destination

Synopsis	Create destination directory if it does not exist
Context	file unzip create-destination
Tree	create-destination

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**destination-url**] *(sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Destination URL or '.' for the working directory
Context	file unzip [destination-url] *(sat-url | cflash-url | string-not-all-spaces)*
Tree	[destination-url]
String length	1 to 200
String format	'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

force

Synopsis	Force the unzip operation without prompting
Context	file unzip force
Tree	force
Description	When configured, files and directories that already exist in the destination URL are overwritten without prompting. The system does not automatically create directories explicitly specified by the destination URL. To allow the system to create new directories, use the **create-destination** command. When unconfigured, the system prompts the user before overwriting a file or directory.
Notes	The following elements are part of a choice: **force** or **list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

list

Synopsis	List the file contents without the unzip operation
Context	file unzip list
Tree	list

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Notes	The following elements are part of a choice: **force** or **list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	file unzip router-instance *string*
Tree	router-instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**source-url**] *(ftp-tftp-url | http-url-loose | sftp-url | sat-url | cflash-url | string-not-all-spaces)*

Synopsis	Source URL
Context	file unzip [source-url] *(ftp-tftp-url* | *http-url-loose* | *sftp-url* | *sat-url* | *cflash-url* | *string-not-all-spaces)*
Tree	[source-url]
String length	1 to 199 (*ftp-tftp-url*) 1 to 180 (*http-url-loose*) 1 to 512 (*sftp-url*) 1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*)
String format	'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme 'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'sftp-url' must not contain illegal characters 'sftp-url' must be sftp:// with optional user:pass@, hostname and path (e.g. sftp://user:pass@hostname.domain/path/file) 'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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version

Synopsis	Display the version of an SR OS image file
Context	file version
Tree	version
Introduced	25.3.R2
Platforms	SAR Gen 2

[**url**] *(sat-url | cflash-url | string-not-all-spaces | ftp-tftp-url)*

Synopsis	File URL
Context	file version [url] *(sat-url | cflash-url | string-not-all-spaces | ftp-tftp-url)*
Tree	[url]
String length	1 to 200 (*sat-url*, *cflash-url*, *string-not-all-spaces*) 1 to 199 (*ftp-tftp-url*)
String format	'sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'string-not-all-spaces' must contain at least one non-space character 'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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2.4 Global commands

Global commands are used for operational functions, such as entering configuration sessions, navigating the CLI, executing OAM commands, and logging into remote hosts.

```
- back number
- bof
  - exclusive
  - private
  - read-only
- configure
  - exclusive
  - global
  - private
  - read-only
- debug
  - exclusive
  - private
  - read-only
- delete instance-id
- edit-config
  - bof
  - debug
  - exclusive
  - global
  - li
  - private
  - read-only
- enable
- exec string
  - echo
- exit
  - all
- history
  - all
  - commands-only
- info keyword
  - [cli-path] cli-path-type
  - converted
  - depth number
  - detail
  - differences
  - flat
  - full-context
  - inheritance
  - json
  - model keyword
  - units
  - values
  - xml
- li
  - exclusive
  - private
  - read-only
- logout
- mrinfo
  - [router] (ipv4-address | string-not-all-spaces)
  - router-instance string
- mstat
  - destination (ipv4-address | string-not-all-spaces)
  - group (ipv4-multicast-address | string-not-all-spaces)
```


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```
      - router-instance string
      - source (ipv4-address | string-not-all-spaces)
      - ttl number
      - wait number
   - mstat2
      - destination (ipv4-address | ipv6-address | string-not-all-spaces)
      - group (ipv4-multicast-address | ipv6-multicast-address | string-not-all-spaces)
      - router-instance string
      - source (keyword | ipv4-address | ipv6-address | string-not-all-spaces)
      - ttl number
      - wait number
   - mtrace
      - destination (ipv4-address | string-not-all-spaces)
      - group (ipv4-multicast-address | string-not-all-spaces)
      - router-instance string
      - source (ipv4-address | string-not-all-spaces)
      - ttl number
      - wait number
   - mtrace2
      - destination (ipv4-address | ipv6-address | string-not-all-spaces)
      - group (ipv4-multicast-address | ipv6-multicast-address | string-not-all-spaces)
      - router-instance string
      - source (keyword | ipv4-address | ipv6-address | string-not-all-spaces)
      - ttl number
      - wait number
   - oam
      - efm
         - local-loopback
            - [action] keyword
            - port-id port
         - remote-loopback
            - [action] keyword
            - port-id port
      - eth-cfm
         - eth-test
            - data-length number
            - [destination] (mac-unicast-address-no-zero | number)
            - ma-admin-name reference
            - md-admin-name reference
            - mep-id number
            - priority number
         - linktrace
            - [destination] (mac-unicast-address-no-zero | number)
            - ma-admin-name reference
            - md-admin-name reference
            - mep-id number
            - ttl number
         - loopback
            - [destination] (mac-unicast-address-no-zero | keyword | number)
            - interval number
            - lbm-padding number
            - ma-admin-name reference
            - md-admin-name reference
            - mep-id number
            - priority number
            - send-count number
            - size number
            - timeout number
         - one-way-delay-test
            - [destination] (mac-unicast-address-no-zero | number)
            - ma-admin-name reference
            - md-admin-name reference
            - mep-id number
            - priority number
```


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```
        – two-way-delay-test
            – [destination] (mac-unicast-address-no-zero | number)
            – ma-admin-name reference
            – md-admin-name reference
            – mep-id number
            – priority number
        – two-way-slm-test
            – [destination] (mac-unicast-address-no-zero | number)
            – interval (number | decimal-number)
            – ma-admin-name reference
            – md-admin-name reference
            – mep-id number
            – priority number
            – send-count number
            – size number
            – timeout number
    – lsp-ping
        – bgp-label
            – fc keyword
            – interface reference
            – interval number
            – next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            – path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            – prefix (ipv4-prefix | ipv6-prefix)
            – profile keyword
            – send-count number
            – size number
            – source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            – timeout number
            – ttl number
        – ldp
            – fc keyword
            – interface reference
            – interval number
            – next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            – path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            – prefix (ipv4-prefix | ipv6-prefix)
            – profile keyword
            – send-count number
            – size number
            – source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            – timeout number
            – ttl number
        – rsvp-te
            – fc keyword
            – interval number
            – lsp-name reference
            – path reference
            – profile keyword
            – send-count number
            – size number
            – source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            – timeout number
            – ttl number
        – sr-isis
            – fc keyword
            – flex-algo number
            – igp-instance number
            – interface reference
            – interval number
            – next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            – path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            – prefix (ipv4-prefix | ipv6-prefix)
            – profile keyword
```


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```
            - send-count number
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
            - ttl number
         - sr-ospf
            - fc keyword
            - flex-algo number
            - igp-instance number
            - interface reference
            - interval number
            - next-hop ipv4-address
            - path-destination ipv4-address
            - prefix (ipv4-prefix | ipv6-prefix)
            - profile keyword
            - send-count number
            - size number
            - source-ip-address ipv4-address
            - timeout number
            - ttl number
         - sr-ospf3
            - fc keyword
            - igp-instance number
            - interface reference
            - interval number
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - prefix (ipv4-prefix | ipv6-prefix)
            - profile keyword
            - send-count number
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
            - ttl number
         - sr-policy
            - color number
            - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
            - fc keyword
            - interface reference
            - interval number
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - profile keyword
            - segment-list number
            - send-count number
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
            - ttl number
         - sr-te
            - fc keyword
            - interface reference
            - interval number
            - lsp-name reference
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            - path reference
            - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - profile keyword
            - send-count number
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
            - ttl number
      - lsp-trace
```


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```
        - bgp-label
          - downstream-map-tlv keyword
          - fc keyword
          - interface reference
          - interval number
          - max-fail number
          - max-ttl number
          - min-ttl number
          - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
          - output-format keyword
          - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
          - prefix (ipv4-prefix | ipv6-prefix)
          - probe-count number
          - profile keyword
          - size number
          - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
          - timeout number
        - ldp
          - downstream-map-tlv keyword
          - fc keyword
          - interface reference
          - interval number
          - max-fail number
          - max-ttl number
          - min-ttl number
          - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
          - output-format keyword
          - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
          - prefix (ipv4-prefix | ipv6-prefix)
          - probe-count number
          - profile keyword
          - size number
          - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
          - timeout number
        - rsvp-te
          - downstream-map-tlv keyword
          - fc keyword
          - interval number
          - lsp-name reference
          - max-fail number
          - max-ttl number
          - min-ttl number
          - output-format keyword
          - path reference
          - probe-count number
          - profile keyword
          - size number
          - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
          - timeout number
        - sr-isis
          - downstream-map-tlv keyword
          - fc keyword
          - flex-algo number
          - igp-instance number
          - interface reference
          - interval number
          - max-fail number
          - max-ttl number
          - min-ttl number
          - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
          - output-format keyword
          - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
          - prefix (ipv4-prefix | ipv6-prefix)
          - probe-count number
```


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```
            - profile keyword
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
         - sr-ospf
            - downstream-map-tlv keyword
            - fc keyword
            - flex-algo number
            - igp-instance number
            - interface reference
            - interval number
            - max-fail number
            - max-ttl number
            - min-ttl number
            - next-hop ipv4-address
            - output-format keyword
            - path-destination ipv4-address
            - prefix (ipv4-prefix | ipv6-prefix)
            - probe-count number
            - profile keyword
            - size number
            - source-ip-address ipv4-address
            - timeout number
         - sr-ospf3
            - downstream-map-tlv keyword
            - fc keyword
            - igp-instance number
            - interface reference
            - interval number
            - max-fail number
            - max-ttl number
            - min-ttl number
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            - output-format keyword
            - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - prefix (ipv4-prefix | ipv6-prefix)
            - probe-count number
            - profile keyword
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
         - sr-policy
            - color number
            - downstream-map-tlv keyword
            - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
            - fc keyword
            - interface reference
            - interval number
            - max-fail number
            - max-ttl number
            - min-ttl number
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            - output-format keyword
            - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - probe-count number
            - profile keyword
            - segment-list number
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
         - sr-te
            - downstream-map-tlv keyword
            - fc keyword
            - interface reference
```


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```
            - interval number
            - lsp-name reference
            - max-fail number
            - max-ttl number
            - min-ttl number
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
            - output-format keyword
            - path reference
            - path-destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - probe-count number
            - profile keyword
            - size number
            - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
      - lsp-treetrace
         - sr-ospf
            - downstream-map-tlv keyword
            - fc keyword
            - igp-instance number
            - max-fail number
            - max-path number
            - max-ttl number
            - output-format keyword
            - prefix (ipv4-prefix | ipv6-prefix)
            - profile keyword
            - source-ip-address ipv4-address
            - timeout number
      - oam-pm
         - action keyword
         - session reference
         - test-type keyword
      - saa
         - owner reference test reference
            - start
               - accounting boolean
            - stop
               - accounting boolean
      - service-activation-testhead
         - service-test reference
            - start
            - stop
   - password
   - ping
      - bypass-routing
      - candidate-path
      - color number
      - count number
      - [destination] (ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-
spaces)
      - distinguisher number
      - do-not-fragment
      - endpoint ipv6-unicast-or-zero-address
      - fc keyword
      - interface (reference | reference | reference | reference | reference)
      - interval (number | decimal-number)
      - next-hop-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - output-format keyword
      - pattern (keyword | number)
      - preference number
      - protocol-owner keyword
      - router-instance (reference | reference)
      - segment-list number
      - size number
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
```


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```
      – srv6-policy
      – subscriber subscriber-id
      – timeout number
      – tos number
      – ttl number
   – pwc
      – [path-type] keyword
      – previous
   – pyexec (string | string)
      – [argument-01] string
      – [argument-02] string
      – [argument-03] string
      – [argument-04] string
      – [argument-05] string
      – [argument-06] string
      – [argument-07] string
      – [argument-08] string
      – [argument-09] string
      – [argument-10] string
      – [argument-11] string
      – [argument-12] string
      – [argument-13] string
      – [argument-14] string
      – [argument-15] string
      – [argument-16] string
      – [argument-17] string
      – [argument-18] string
      – [argument-19] string
      – [argument-20] string
   – quit-config
   – ssh
      – [destination] (ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-
spaces)
      – key-re-exchange
         – mbytes (number | keyword)
         – minutes (number | keyword)
      – login-name string-not-all-spaces
      – port number
      – private-key-file string
      – router-instance (string | string)
   – telnet
      – [destination] (ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-
spaces)
      – port number
      – router-instance (string | string)
      – source-address (ipv4-address-no-zone | ipv6-address-no-zone)
   – top
   – traceroute
      – candidate-path
      – color number
      – decode keyword
      – dest-port number
      – dest-port-udp-fixed
      – [destination] (ipv4-address-no-zone | ipv6-address-no-zone | string-not-all-spaces)
      – detail
      – distinguisher number
      – endpoint ipv6-unicast-or-zero-address
      – min-ttl number
      – numeric
      – preference number
      – probe-count number
      – protocol keyword
      – protocol-owner keyword
      – router-instance string
```


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traceroute segment-list

```
      - segment-list number
      - size number
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - srv6-policy
      - tos number
      - ttl number
      - wait number
   - tree
      - [cli-path] cli-path-type
      - detail
      - flat
      - [path-format] keyword
```


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2.4.1 Global command descriptions

back [levels] *number*

Synopsis	Move back one or more levels
Context	back *number*
Tree	back
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**levels**] *number*

Synopsis	Number of levels to move up
Context	back *number*
Tree	back
Range	1 to 4294967295
MD-CLI default	1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

bof

Synopsis	Enter a candidate configuration mode
Context	bof
Tree	bof
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

exclusive

Synopsis	Enter exclusive configuration mode
Context	bof exclusive
Tree	exclusive

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

private

Synopsis	Enter private configuration mode
Context	bof private
Tree	private
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

read-only

Synopsis	Enter read-only configuration mode
Context	bof read-only
Tree	read-only
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

configure

Synopsis	Enter a candidate configuration mode
Context	configure
Tree	configure
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

exclusive

Synopsis	Enter exclusive configuration mode
Context	configure exclusive
Tree	exclusive
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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global

Synopsis	Enter global configuration mode
Context	configure global
Tree	global
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

private

Synopsis	Enter private configuration mode
Context	configure private
Tree	private
Introduced	25.3.R4
Platforms	7705 SAR Gen 2

read-only

Synopsis	Enter read-only configuration mode
Context	configure read-only
Tree	read-only
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

debug

Synopsis	Enter a candidate configuration mode
Context	debug
Tree	debug
Introduced	25.3.R1
Platforms	7705 SAR Gen 2

exclusive

Synopsis	Enter exclusive configuration mode

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Context	debug exclusive
Tree	exclusive
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

private

Synopsis	Enter private configuration mode
Context	debug private
Tree	private
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

read-only

Synopsis	Enter read-only configuration mode
Context	debug read-only
Tree	read-only
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

delete [cli-path] *instance-id*

Synopsis	Delete an element
Context	delete *instance-id*
Tree	delete
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *instance-id*

Synopsis	Absolute path or relative path from pwc
Context	delete *instance-id*
Tree	delete
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

edit-config

Synopsis	Enter a configuration mode
Context	edit-config
Tree	edit-config
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

bof

Synopsis	Enter the bof configuration context
Context	edit-config bof
Tree	bof
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

debug

Synopsis	Enter the debug configuration context
Context	edit-config debug
Tree	debug
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

exclusive

Synopsis	Enter exclusive configuration mode
Context	edit-config exclusive
Tree	exclusive
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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global

Synopsis	Enter global configuration mode
Context	edit-config global
Tree	global
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

li

Synopsis	Enter the li configuration context
Context	edit-config li
Tree	li
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

private

Synopsis	Enter private configuration mode
Context	edit-config private
Tree	private
Introduced	25.3.R4
Platforms	7705 SAR Gen 2

read-only

Synopsis	Enter read-only configuration mode
Context	edit-config read-only
Tree	read-only
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

enable

Synopsis	Enable administrative mode

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Context	enable
Tree	enable
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

exec [url] *string*

Synopsis	Execute commands from a file
Context	exec *string*
Tree	exec
Description	Commands in this context execute the contents of a text file as if they were CLI commands entered by the user. The **exec** command should not be used to execute configuration files. Use the **load** command instead.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**url**] *string*

Synopsis	Location of the file to be executed
Context	exec *string*
Tree	exec
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

echo

Synopsis	Display the commands as they are being executed
Context	exec *string* echo
Tree	echo
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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exit

Synopsis	Return to the previous context or to operational root
Context	exit
Tree	exit
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

all

Synopsis	Return to the root context
Context	exit all
Tree	all
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

history

Synopsis	Show the command history
Context	history
Tree	history
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

all

Synopsis	Show the command history from all regions
Context	history all
Tree	all
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

commands-only

Synopsis	Show only the commands in the command history

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Context	history commands-only
Tree	commands-only
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

info [from] *keyword*

Synopsis	Show the information under the present working context
Context	info *keyword*
Tree	info
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**from**] *keyword*

Synopsis	Source datastore
Context	info *keyword*
Tree	info
Description	This command specifies the source datastore. This option is not supported for **state** elements.
Options	candidate – The candidate datastore running – The running datastore baseline – The baseline candidate configuration intended – The intended datastore
MD-CLI default	candidate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc
Context	info *keyword* [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

converted

Synopsis	Include converted third-party model configuration from the running datastore
Context	info *keyword* converted
Tree	converted
Description	This option specifies the inclusion of converted configuration values from third-party models in the output and is only available when **configure system management-interface yang-modules openconfig-modules** is set to **true**. This option should only be used in the **configure** region when third-party models are used. The output with this option is the same as **info** when used in other configuration regions. This option is not supported for **state** elements.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

depth *number*

Synopsis	Depth limit from the pwc
Context	info *keyword* depth *number*
Tree	depth
Range	1 to 4294967040
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

detail

Synopsis	Include default and unconfigured values
Context	info *keyword* detail
Tree	detail
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

differences

Synopsis	Show the different values each model tries to set

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Context	info *keyword* differences
Tree	differences
Description	When specified, this command shows only the values that are different when multiple models try to set the same configuration element. This option is supported only with the **converted** option and is available only when **configure system management-interface yang-modules openconfig-modules** is set to **true**. This option is not supported for **state** elements.
Notes	The following elements are part of a choice: **differences**, **model**, or **values**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

flat

Synopsis	Show the context from the pwc on each line
Context	info *keyword* flat
Tree	flat
Description	This option shows the hierarchy on each line starting from the present working context.
Notes	The following elements are part of a choice: **flat**, **json**, or **xml**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

full-context

Synopsis	Show the full context on each line
Context	info *keyword* full-context
Tree	full-context
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

inheritance

Synopsis	Include configuration inherited from configuration groups
Context	info *keyword* inheritance
Tree	inheritance

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Description	This option specifies the inclusion of configuration inherited from configuration groups in the output. This option should only be used in the **configure** region when configuration groups are used. The output with this option is the same as **info** when used in other configuration regions. This option is not supported for **state** elements.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

json

Synopsis	Show the output in indented JSON IETF format
Context	info *keyword* json
Tree	json
Notes	The following elements are part of a choice: **flat**, **json**, or **xml**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

model *keyword*

Synopsis	Data model for which to display converted output
Context	info *keyword* model *keyword*
Tree	model
Description	This option specifies the data model for which to display the converted output. This option is supported only with the **converted** option and is available only when **configure system management-interface yang-modules openconfig-modules** is set to **true**. This option is not supported for **state** elements.
Options	all – All models openconfig – OpenConfig models
Default	all
Notes	The following elements are part of a choice: **differences**, **model**, or **values**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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units

Synopsis	Include unit types for applicable elements
Context	info *keyword* units
Tree	units
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

values

Synopsis	Show all the values each model tries to set
Context	info *keyword* values
Tree	values
Description	When specified, this command shows all the values that each model tries to set. This option is supported only with the **converted** option and is available only when **configure system management-interface yang-modules openconfig-modules** is set to **true**. This option is not supported for **state** elements.
Notes	The following elements are part of a choice: **differences**, **model**, or **values**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

xml

Synopsis	Show the output in indented XML format
Context	info *keyword* xml
Tree	xml
Notes	The following elements are part of a choice: **flat**, **json**, or **xml**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

li

Synopsis	Enter a candidate configuration mode
Context	li

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Tree	li
Introduced	25.3.R1
Platforms	7705 SAR Gen 2

exclusive

Synopsis	Enter exclusive configuration mode
Context	li exclusive
Tree	exclusive
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

private

Synopsis	Enter private configuration mode
Context	li private
Tree	private
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

read-only

Synopsis	Enter read-only configuration mode
Context	li read-only
Tree	read-only
Introduced	25.3.R1
Platforms	7705 SAR Gen 2

logout

Synopsis	Exit the CLI session
Context	logout
Tree	logout
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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mrinfo

Synopsis	Request multicast router information
Context	mrinfo
Tree	mrinfo
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

[**router**] *(ipv4-address* | *string-not-all-spaces)*

Synopsis	Router IPv4 address or DNS name
Context	mrinfo [router] *(ipv4-address* | *string-not-all-spaces)*
Tree	[router]
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	mrinfo router-instance *string*
Tree	router-instance
Default	Base
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

mstat

Synopsis	Trace multicast path from a source to a receiver and display multicast packet rate and loss information (IGMP based)
Context	mstat
Tree	mstat

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Introduced	25.10.R1
Platforms	7705 SAR Gen 2

destination *(ipv4-address | string-not-all-spaces)*

Synopsis	Destination IPv4 address or DNS name
Context	mstat destination *(ipv4-address | string-not-all-spaces)*
Tree	destination
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

group *(ipv4-multicast-address | string-not-all-spaces)*

Synopsis	Multicast group IPv4 address or DNS name
Context	mstat group *(ipv4-multicast-address | string-not-all-spaces)*
Tree	group
String length	1 to 128
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	mstat router-instance *string*
Tree	router-instance
Default	Base
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

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source *(ipv4-address | string-not-all-spaces)*

Synopsis	Source IPv4 address or DNS name
Context	mstat source *(ipv4-address | string-not-all-spaces)*
Tree	source
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Time to Live (TTL) included in the Mtrace Query packet
Context	mstat ttl *number*
Tree	ttl
Range	1 to 255
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

wait *number*

Synopsis	Wait time for the Mtrace Response packet
Context	mstat wait *number*
Tree	wait
Range	1 to 60
Units	seconds
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

mstat2

Synopsis	Show the multicast route taken from a source to a destination with packet rate and loss information (UDP-based)

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Context	mstat2
Tree	mstat2
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

destination *(ipv4-address | ipv6-address | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name
Context	mstat2 destination *(ipv4-address | ipv6-address | string-not-all-spaces)*
Tree	destination
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

group *(ipv4-multicast-address | ipv6-multicast-address | string-not-all-spaces)*

Synopsis	Multicast group IPv4 address or DNS name
Context	mstat2 group *(ipv4-multicast-address | ipv6-multicast-address | string-not-all-spaces)*
Tree	group
String length	1 to 128
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	mstat2 router-instance *string*
Tree	router-instance
Default	Base
Introduced	25.10.R1

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Platforms	7705 SAR Gen 2

source *(keyword | ipv4-address | ipv6-address | string-not-all-spaces)*

Synopsis	Source IP address or DNS name
Context	mstat2 source *(keyword | ipv4-address | ipv6-address | string-not-all-spaces)*
Tree	source
String length	1 to 128
Options	starg – Use a static (*,G) address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Time to Live (TTL) included in the Mtrace Query packet
Context	mstat2 ttl *number*
Tree	ttl
Range	1 to 255
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

wait *number*

Synopsis	Wait time for the Mtrace Response packet
Context	mstat2 wait *number*
Tree	wait
Range	1 to 60
Units	seconds
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

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mtrace

Synopsis	Show the multicast route taken from a source to a destination (IGMP-based)
Context	mtrace
Tree	mtrace
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

destination *(ipv4-address | string-not-all-spaces)*

Synopsis	Destination IPv4 address or DNS name
Context	mtrace destination *(ipv4-address | string-not-all-spaces)*
Tree	destination
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

group *(ipv4-multicast-address | string-not-all-spaces)*

Synopsis	Multicast group IPv4 address or DNS name
Context	mtrace group *(ipv4-multicast-address | string-not-all-spaces)*
Tree	group
String length	1 to 128
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	mtrace router-instance *string*

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Tree	router-instance
Default	Base
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

source *(ipv4-address | string-not-all-spaces)*

Synopsis	Source IPv4 address or DNS name
Context	mtrace source *(ipv4-address | string-not-all-spaces)*
Tree	source
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Time to Live (TTL) included in the Mtrace Query packet
Context	mtrace ttl *number*
Tree	ttl
Range	1 to 255
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

wait *number*

Synopsis	Wait time for the Mtrace Response packet
Context	mtrace wait *number*
Tree	wait
Range	1 to 60
Units	seconds
Introduced	25.10.R1

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Platforms	7705 SAR Gen 2

mtrace2

Synopsis	Show the multicast route taken from a source to a destination (UDP-based)
Context	mtrace2
Tree	mtrace2
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

destination *(ipv4-address | ipv6-address | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name
Context	mtrace2 destination *(ipv4-address | ipv6-address | string-not-all-spaces)*
Tree	destination
String length	1 to 128
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

group *(ipv4-multicast-address | ipv6-multicast-address | string-not-all-spaces)*

Synopsis	Multicast group IPv4 address or DNS name
Context	mtrace2 group *(ipv4-multicast-address | ipv6-multicast-address | string-not-all-spaces)*
Tree	group
String length	1 to 128
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name

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Context	mtrace2 router-instance *string*
Tree	router-instance
Default	Base
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

source *(keyword | ipv4-address | ipv6-address | string-not-all-spaces)*

Synopsis	Source IP address or DNS name
Context	mtrace2 source *(keyword | ipv4-address | ipv6-address | string-not-all-spaces)*
Tree	source
String length	1 to 128
Options	starg – Use a static (*,G) address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Time to Live (TTL) included in the Mtrace Query packet
Context	mtrace2 ttl *number*
Tree	ttl
Range	1 to 255
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

wait *number*

Synopsis	Wait time for the Mtrace Response packet
Context	mtrace2 wait *number*
Tree	wait
Range	1 to 60

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Units	seconds
Introduced	25.10.R1
Platforms	7705 SAR Gen 2

oam

Synopsis	Perform OAM tests
Context	oam
Tree	oam
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

efm

Synopsis	Enter the **efm** context
Context	oam efm
Tree	efm
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

local-loopback

Synopsis	Start or stop local loopback test on a port
Context	oam efm local-loopback
Tree	local-loopback
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**action**] *keyword*

Synopsis	Action type for the test
Context	oam efm local-loopback [action] *keyword*
Tree	[action]
Options	start, stop
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

port-id *port*

Synopsis	Port ID for the test
Context	oam efm local-loopback port-id *port*
Tree	port-id
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

remote-loopback

Synopsis	Start or stop remote loopback test on a port
Context	oam efm remote-loopback
Tree	remote-loopback
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**action**] *keyword*

Synopsis	Action type for the test
Context	oam efm remote-loopback [action] *keyword*
Tree	[action]
Options	start, stop
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

port-id *port*

Synopsis	Port ID for the test
Context	oam efm remote-loopback port-id *port*
Tree	port-id

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

eth-cfm

Synopsis	Initiate an Ethernet Connectivity Fault Management test
Context	oam eth-cfm
Tree	eth-cfm
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

eth-test

Synopsis	Initiate an OAM ETH-CFM test
Context	oam eth-cfm eth-test
Tree	eth-test
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

data-length *number*

Synopsis	Size of the padding to be added to the frame
Context	oam eth-cfm eth-test data-length *number*
Tree	data-length
Range	64 to 1500
Default	64
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(mac-unicast-address-no-zero | number)*

Synopsis	Destination MAC address or remote MEP ID of the peer
Context	oam eth-cfm eth-test [destination] *(mac-unicast-address-no-zero | number)*
Tree	[destination]

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Range	1 to 8191
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ma-admin-name *reference*

Synopsis	Association name
Context	oam eth-cfm eth-test ma-admin-name *reference*
Tree	ma-admin-name
Reference	**state eth-cfm domain** *admin-name* **association** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

md-admin-name *reference*

Synopsis	Domain name
Context	oam eth-cfm eth-test md-admin-name *reference*
Tree	md-admin-name
Reference	**state eth-cfm domain** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

mep-id *number*

Synopsis	Local Maintenance Association Endpoint (MEP) ID
Context	oam eth-cfm eth-test mep-id *number*
Tree	mep-id
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

priority *number*

Synopsis	Frame priority that can be manipulated by QoS policies
Context	oam eth-cfm eth-test priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

linktrace

Synopsis	Initiate a linktrace test
Context	oam eth-cfm linktrace
Tree	linktrace
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(mac-unicast-address-no-zero* | *number)*

Synopsis	Destination MAC address or remote MEP ID of the peer
Context	oam eth-cfm linktrace [destination] *(mac-unicast-address-no-zero* | *number)*
Tree	[destination]
Range	1 to 8191
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ma-admin-name *reference*

Synopsis	Association name
Context	oam eth-cfm linktrace ma-admin-name *reference*

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Tree	ma-admin-name
Reference	**state eth-cfm domain** *admin-name* **association** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

md-admin-name *reference*

Synopsis	Domain name
Context	oam eth-cfm linktrace md-admin-name *reference*
Tree	md-admin-name
Reference	**state eth-cfm domain** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

mep-id *number*

Synopsis	Local Maintenance Association Endpoint (MEP) ID
Context	oam eth-cfm linktrace mep-id *number*
Tree	mep-id
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Time to live for a returned linktrace
Context	oam eth-cfm linktrace ttl *number*
Tree	ttl
Range	0 to 255
Default	64
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

loopback

Synopsis	Initiate a loopback test
Context	oam eth-cfm loopback
Tree	loopback
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(mac-unicast-address-no-zero* | *keyword* | *number)*

Synopsis	Destination MAC address or remote MEP ID of the peer
Context	oam eth-cfm loopback [destination] *(mac-unicast-address-no-zero* | *keyword* | *number)*
Tree	[destination]
Description	[None]
Range	1 to 8191
Options	multicast – Class one destination multicast address from level of local ME
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Time between probes within the test run
Context	oam eth-cfm loopback interval *number*
Tree	interval
Range	0 to 600
Units	deciseconds
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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lbm-padding *number*

Synopsis	Data portion size of the data TLV, no octet string
Context	oam eth-cfm loopback lbm-padding *number*
Tree	lbm-padding
Description	This command configures the size of the data portion of the data TLV which does not allow for an optional octet string. MSDU is not processed when this setting is in use. This command and **size** are mutually exclusive. A value of 0 means that no data TLV is added to the packet. This is specified with an octet string.
Range	0 | 3 to 9778
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ma-admin-name *reference*

Synopsis	Association name
Context	oam eth-cfm loopback ma-admin-name *reference*
Tree	ma-admin-name
Reference	**state eth-cfm domain** *admin-name* **association** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

md-admin-name *reference*

Synopsis	Domain name
Context	oam eth-cfm loopback md-admin-name *reference*
Tree	md-admin-name
Reference	**state eth-cfm domain** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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mep-id *number*

Synopsis	Local Maintenance Association Endpoint (MEP) ID
Context	oam eth-cfm loopback mep-id *number*
Tree	mep-id
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

priority *number*

Synopsis	Frame priority that can be manipulated by QoS policies
Context	oam eth-cfm loopback priority *number*
Tree	priority
Range	0 to 7
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of loopback messages to send
Context	oam eth-cfm loopback send-count *number*
Tree	send-count
Range	1 to 1024
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Data portion size of the data TLV, octet string allowed
Context	oam eth-cfm loopback size *number*
Tree	size

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Description	This command specifies the size of the data portion of the data TLV allowing for an optional octet string to be included. This command and **lbm-padding** are mutually exclusive. A value of 0 means that no data TLV is added to the packet.
Range	0 to 1500
Units	bytes
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Wait time for a reply to a sent message request
Context	oam eth-cfm loopback timeout *number*
Tree	timeout
Description	This command specifies the time the router waits for a message reply after sending a message request. After expiration of the timeout, the router assumes that the message response is not received. Any response received after the timeout is silently discarded.
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

one-way-delay-test

Synopsis	Initiate a one-way delay test
Context	oam eth-cfm one-way-delay-test
Tree	one-way-delay-test
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(mac-unicast-address-no-zero | number)*

Synopsis	Destination MAC address or remote MEP ID of the peer

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Context	oam eth-cfm one-way-delay-test [destination] *(mac-unicast-address-no-zero | number)*
Tree	[destination]
Range	1 to 8191
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ma-admin-name *reference*

Synopsis	Association name
Context	oam eth-cfm one-way-delay-test ma-admin-name *reference*
Tree	ma-admin-name
Reference	**state eth-cfm domain** *admin-name* **association** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

md-admin-name *reference*

Synopsis	Domain name
Context	oam eth-cfm one-way-delay-test md-admin-name *reference*
Tree	md-admin-name
Reference	**state eth-cfm domain** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

mep-id *number*

Synopsis	Local Maintenance Association Endpoint (MEP) ID
Context	oam eth-cfm one-way-delay-test mep-id *number*
Tree	mep-id
Range	1 to 8191

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

priority *number*

Synopsis	Frame priority that can be manipulated by QoS policies
Context	oam eth-cfm one-way-delay-test priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

two-way-delay-test

Synopsis	Initiate a two-way delay test
Context	oam eth-cfm two-way-delay-test
Tree	two-way-delay-test
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(mac-unicast-address-no-zero* | *number)*

Synopsis	Destination MAC address or remote MEP ID of the peer
Context	oam eth-cfm two-way-delay-test [destination] *(mac-unicast-address-no-zero* | *number)*
Tree	[destination]
Range	1 to 8191
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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ma-admin-name *reference*

Synopsis	Association name
Context	oam eth-cfm two-way-delay-test ma-admin-name *reference*
Tree	ma-admin-name
Reference	**state eth-cfm domain** *admin-name* **association** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

md-admin-name *reference*

Synopsis	Domain name
Context	oam eth-cfm two-way-delay-test md-admin-name *reference*
Tree	md-admin-name
Reference	**state eth-cfm domain** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

mep-id *number*

Synopsis	Local Maintenance Association Endpoint (MEP) ID
Context	oam eth-cfm two-way-delay-test mep-id *number*
Tree	mep-id
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

priority *number*

Synopsis	Frame priority that can be manipulated by QoS policies
Context	oam eth-cfm two-way-delay-test priority *number*

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Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

two-way-slm-test

Synopsis	Initiate a two-way SLM test in SAA
Context	oam eth-cfm two-way-slm-test
Tree	two-way-slm-test
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(mac-unicast-address-no-zero* | *number)*

Synopsis	Destination MAC address or remote MEP ID of the peer
Context	oam eth-cfm two-way-slm-test [destination] *(mac-unicast-address-no-zero* | *number)*
Tree	[destination]
Range	1 to 8191
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *(number* | *decimal-number)*

Synopsis	Time between probes within the test run
Context	oam eth-cfm two-way-slm-test interval *(number* | *decimal-number)*
Tree	interval
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

ma-admin-name *reference*

Synopsis	Association name
Context	oam eth-cfm two-way-slm-test ma-admin-name *reference*
Tree	ma-admin-name
Reference	**state eth-cfm domain** *admin-name* **association** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

md-admin-name *reference*

Synopsis	Domain name
Context	oam eth-cfm two-way-slm-test md-admin-name *reference*
Tree	md-admin-name
Reference	**state eth-cfm domain** *admin-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

mep-id *number*

Synopsis	Local Maintenance Association Endpoint (MEP) ID
Context	oam eth-cfm two-way-slm-test mep-id *number*
Tree	mep-id
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

priority *number*

Synopsis	Frame priority that can be manipulated by QoS policies

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Context	oam eth-cfm two-way-slm-test priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of two-way SLM test messages to send
Context	oam eth-cfm two-way-slm-test send-count *number*
Tree	send-count
Range	1 to 1000
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Data portion size of the data TLV, octet string allowed
Context	oam eth-cfm two-way-slm-test size *number*
Tree	size
Description	This command specifies the size of the data portion of the Data TLV, allowing for an optional octet string to be included.
Range	0 to 1500
Units	bytes
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Wait time for a reply to a sent message request
Context	oam eth-cfm two-way-slm-test timeout *number*
Tree	timeout

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Description	This command specifies the time the router waits for a message reply after sending a message request. After the expiration of the timeout, the router assumes that the message response is not received. Any response received after the timeout is silently discarded.
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-ping

Synopsis	Perform a Label Switched Path (LSP) ping test
Context	oam lsp-ping
Tree	lsp-ping
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

bgp-label

Synopsis	Perform a BGP-label LSP trace test
Context	oam lsp-ping bgp-label
Tree	bgp-label
Description	This command option performs a Border Gateway Protocol (BGP-label) LSP trace test using Target FEC Stack code point "BGP labeled IPv4 prefix".
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping bgp-label fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured)

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h2 – High 2 (high priority)
ef – Expedited Forwarding (high priority)
h1 – High 1 (high priority)
nc – Network Control (high priority)

Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping bgp-label interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping bgp-label interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping bgp-label next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-ping bgp-label path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-ping bgp-label prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping bgp-label profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping bgp-label send-count *number*
Tree	send-count

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Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping bgp-label size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping bgp-label source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping bgp-label timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping bgp-label ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ldp

Synopsis	Perform an LDP LSP ping test
Context	oam lsp-ping ldp
Tree	ldp
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping ldp fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping ldp interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping ldp interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping ldp next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-ping ldp path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-ping ldp prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping ldp profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping ldp send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping ldp size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping ldp source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping ldp timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping ldp ttl *number*
Tree	ttl

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Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

rsvp-te

Synopsis	Perform an RSVP-TE LSP ping test
Context	oam lsp-ping rsvp-te
Tree	rsvp-te
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping rsvp-te fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping rsvp-te interval *number*
Tree	interval
Range	1 to 10
Units	seconds

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Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-name *reference*

Synopsis	Name of the LSP to test
Context	oam lsp-ping rsvp-te lsp-name *reference*
Tree	lsp-name
Reference	**state router** *named-item-64* **mpls lsp** *named-item-64*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path *reference*

Synopsis	Name of the MPLS path to test
Context	oam lsp-ping rsvp-te path *reference*
Tree	path
Reference	**state router** *named-item-64* **mpls path** *named-item-64*
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping rsvp-te profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping rsvp-te send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping rsvp-te size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping rsvp-te source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping rsvp-te timeout *number*
Tree	timeout

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Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping rsvp-te ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-isis

Synopsis	Perform an SR-ISIS LSP ping test
Context	oam lsp-ping sr-isis
Tree	sr-isis
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping sr-isis fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)

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Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

flex-algo *number*

Synopsis	Segment Routing Flexible Algorithm for the test
Context	oam lsp-ping sr-isis flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-ISIS test
Context	oam lsp-ping sr-isis igp-instance *number*
Tree	igp-instance
Range	0 to 127
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping sr-isis interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping sr-isis interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping sr-isis next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-ping sr-isis path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-ping sr-isis prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping sr-isis profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping sr-isis send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping sr-isis size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping sr-isis source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping sr-isis timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping sr-isis ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-ospf

Synopsis	Perform an SR-OSPF LSP ping test
Context	oam lsp-ping sr-ospf
Tree	sr-ospf
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping sr-ospf fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

flex-algo *number*

Synopsis	Segment Routing Flexible Algorithm for the test
Context	oam lsp-ping sr-ospf flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-OSPF test
Context	oam lsp-ping sr-ospf igp-instance *number*
Tree	igp-instance
Description	This command specifies the IGP instance used to look up the node SID prefix.
Range	0 to 31
Default	0
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping sr-ospf interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping sr-ospf interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *ipv4-address*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping sr-ospf next-hop *ipv4-address*
Tree	next-hop
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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path-destination *ipv4-address*

Synopsis	IP address of the path destination
Context	oam lsp-ping sr-ospf path-destination *ipv4-address*
Tree	path-destination
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-ping sr-ospf prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping sr-ospf profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping sr-ospf send-count *number*
Tree	send-count

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Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping sr-ospf size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *ipv4-address*

Synopsis	Source IP address
Context	oam lsp-ping sr-ospf source-ip-address *ipv4-address*
Tree	source-ip-address
Description	This command specifies the source IP address. This command is used when an OAM packet must be generated from an address other than the system interface address of the node. The address must be from a prefix that is routable in the network.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping sr-ospf timeout *number*
Tree	timeout
Range	1 to 10

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Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping sr-ospf ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-ospf3

Synopsis	Perform an SR-OSPFv3 LSP ping test
Context	oam lsp-ping sr-ospf3
Tree	sr-ospf3
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping sr-ospf3 fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-OSPFv3 test
Context	oam lsp-ping sr-ospf3 igp-instance *number*
Tree	igp-instance
Range	0 to 31 | 64 to 95
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping sr-ospf3 interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping sr-ospf3 interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping sr-ospf3 next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-ping sr-ospf3 path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-ping sr-ospf3 prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping sr-ospf3 profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping sr-ospf3 send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping sr-ospf3 size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping sr-ospf3 source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request

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Context	oam lsp-ping sr-ospf3 timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping sr-ospf3 ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-policy

Synopsis	Perform an SR policy LSP ping test
Context	oam lsp-ping sr-policy
Tree	sr-policy
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

color *number*

Synopsis	Segment Routing color for the test
Context	oam lsp-ping sr-policy color *number*
Tree	color
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Segment Routing endpoint for the test
Context	oam lsp-ping sr-policy endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping sr-policy fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping sr-policy interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping sr-policy interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping sr-policy next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-ping sr-policy path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping sr-policy profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile

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Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

segment-list *number*

Synopsis	Segment Routing segment list for the test
Context	oam lsp-ping sr-policy segment-list *number*
Tree	segment-list
Range	1 to 32
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping sr-policy send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping sr-policy size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping sr-policy source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping sr-policy timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping sr-policy ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-te

Synopsis	Perform an SR-TE LSP ping test
Context	oam lsp-ping sr-te
Tree	sr-te
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-ping sr-te fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-ping sr-te interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-ping sr-te interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-name *reference*

Synopsis	Name of the LSP to test
Context	oam lsp-ping sr-te lsp-name *reference*
Tree	lsp-name
Reference	**state router** *named-item-64* **mpls lsp** *named-item-64*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-ping sr-te next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path *reference*

Synopsis	Name of the MPLS path to test
Context	oam lsp-ping sr-te path *reference*
Tree	path
Reference	**state router** *named-item-64* **mpls path** *named-item-64*
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-ping sr-te path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

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Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-ping sr-te profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

send-count *number*

Synopsis	Number of echo request packets to send
Context	oam lsp-ping sr-te send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-ping sr-te size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-ping sr-te source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-ping sr-te timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	TTL value for the MPLS label of the echo request
Context	oam lsp-ping sr-te ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-trace

Synopsis	Perform a Label Switched Path (LSP) trace test
Context	oam lsp-trace

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Tree	lsp-trace
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

bgp-label

Synopsis	Perform a BGP-label LSP trace test
Context	oam lsp-trace bgp-label
Tree	bgp-label
Description	This option performs an LSP trace test using Target FEC Stack sub-type "BGP labeled IPv4 prefix".
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace bgp-label downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace bgp-label fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)

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Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace bgp-label interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace bgp-label interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace bgp-label max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace bgp-label max-ttl *number*
Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace bgp-label min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace bgp-label next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace bgp-label output-format *keyword*
Tree	output-format
Options	summary, detail

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Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-trace bgp-label path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-trace bgp-label prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace bgp-label probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace bgp-label profile *keyword*

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Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace bgp-label size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-trace bgp-label source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace bgp-label timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ldp

Synopsis	Perform an LDP LSP trace test
Context	oam lsp-trace ldp
Tree	ldp
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace ldp downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace ldp fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace ldp interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace ldp interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace ldp max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace ldp max-ttl *number*

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Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace ldp min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace ldp next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace ldp output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-trace ldp path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-trace ldp prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace ldp probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace ldp profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace ldp size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-trace ldp source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace ldp timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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rsvp-te

Synopsis	Perform an RSVP-TE LSP trace test
Context	oam lsp-trace rsvp-te
Tree	rsvp-te
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace rsvp-te downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace rsvp-te fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace rsvp-te interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-name *reference*

Synopsis	Name of the LSP to test
Context	oam lsp-trace rsvp-te lsp-name *reference*
Tree	lsp-name
Reference	**state router** *named-item-64* **mpls lsp** *named-item-64*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace rsvp-te max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace rsvp-te max-ttl *number*

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Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace rsvp-te min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace rsvp-te output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path *reference*

Synopsis	Name of the MPLS path to test
Context	oam lsp-trace rsvp-te path *reference*
Tree	path
Reference	**state router** *named-item-64* **mpls path** *named-item-64*
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace rsvp-te probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace rsvp-te profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace rsvp-te size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address

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Context	oam lsp-trace rsvp-te source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace rsvp-te timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-isis

Synopsis	Perform an SR-ISIS LSP trace test
Context	oam lsp-trace sr-isis
Tree	sr-isis
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace sr-isis downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace sr-isis fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

flex-algo *number*

Synopsis	Segment Routing Flexible Algorithm for the test
Context	oam lsp-trace sr-isis flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-ISIS test
Context	oam lsp-trace sr-isis igp-instance *number*
Tree	igp-instance
Range	0 to 127
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace sr-isis interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace sr-isis interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace sr-isis max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace sr-isis max-ttl *number*

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Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace sr-isis min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace sr-isis next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace sr-isis output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-trace sr-isis path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-trace sr-isis prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace sr-isis probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace sr-isis profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace sr-isis size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-trace sr-isis source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace sr-isis timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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sr-ospf

Synopsis	Perform an SR-OSPF LSP trace test
Context	oam lsp-trace sr-ospf
Tree	sr-ospf
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace sr-ospf downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace sr-ospf fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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flex-algo *number*

Synopsis	Segment Routing Flexible Algorithm for the test
Context	oam lsp-trace sr-ospf flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-OSPF test
Context	oam lsp-trace sr-ospf igp-instance *number*
Tree	igp-instance
Description	This command specifies the IGP instance used to look up the node SID prefix.
Range	0 to 31
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace sr-ospf interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace sr-ospf interval *number*
Tree	interval

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Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace sr-ospf max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace sr-ospf max-ttl *number*
Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace sr-ospf min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

next-hop *ipv4-address*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace sr-ospf next-hop *ipv4-address*
Tree	next-hop
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace sr-ospf output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *ipv4-address*

Synopsis	IP address of the path destination
Context	oam lsp-trace sr-ospf path-destination *ipv4-address*
Tree	path-destination
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test

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Context	oam lsp-trace sr-ospf prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace sr-ospf probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace sr-ospf profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace sr-ospf size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *ipv4-address*

Synopsis	Source IP address
Context	oam lsp-trace sr-ospf source-ip-address *ipv4-address*
Tree	source-ip-address
Description	This command specifies the source IP address. This command is used when an OAM packet must be generated from an address other than the system interface address of the node. The address must be from a prefix that is routable in the network.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace sr-ospf timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-ospf3

Synopsis	Perform an SR-OSPFv3 LSP trace test
Context	oam lsp-trace sr-ospf3
Tree	sr-ospf3
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace sr-ospf3 downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace sr-ospf3 fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-OSPFv3 test
Context	oam lsp-trace sr-ospf3 igp-instance *number*
Tree	igp-instance
Range	0 to 31 | 64 to 95
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace sr-ospf3 interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace sr-ospf3 interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace sr-ospf3 max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace sr-ospf3 max-ttl *number*

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Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace sr-ospf3 min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace sr-ospf3 next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace sr-ospf3 output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-trace sr-ospf3 path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	oam lsp-trace sr-ospf3 prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace sr-ospf3 probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace sr-ospf3 profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace sr-ospf3 size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-trace sr-ospf3 source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace sr-ospf3 timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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sr-policy

Synopsis	Perform an SR policy LSP trace test
Context	oam lsp-trace sr-policy
Tree	sr-policy
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

color *number*

Synopsis	Segment Routing color for the test
Context	oam lsp-trace sr-policy color *number*
Tree	color
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace sr-policy downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Segment Routing endpoint for the test
Context	oam lsp-trace sr-policy endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace sr-policy fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace sr-policy interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace sr-policy interval *number*
Tree	interval
Range	1 to 10
Units	seconds

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Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace sr-policy max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace sr-policy max-ttl *number*
Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace sr-policy min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace sr-policy next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace sr-policy output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-trace sr-policy path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace sr-policy probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace sr-policy profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

segment-list *number*

Synopsis	Segment Routing segment list for the test
Context	oam lsp-trace sr-policy segment-list *number*
Tree	segment-list
Range	1 to 32
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size
Context	oam lsp-trace sr-policy size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-trace sr-policy source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace sr-policy timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

sr-te

Synopsis	Perform an SR-TE LSP trace test
Context	oam lsp-trace sr-te
Tree	sr-te
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Type of downstream mapping TLV in MPLS echo request PDU
Context	oam lsp-trace sr-te downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV none – No mapping TLV

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS forwarding class for the sent echo request packet
Context	oam lsp-trace sr-te fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *reference*

Synopsis	Egress router interface to use with path destination
Context	oam lsp-trace sr-te interface *reference*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name*
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *number*

Synopsis	Minimum time to expire before next echo request is sent
Context	oam lsp-trace sr-te interval *number*
Tree	interval
Range	1 to 10
Units	seconds

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Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-name *reference*

Synopsis	Name of the LSP to test
Context	oam lsp-trace sr-te lsp-name *reference*
Tree	lsp-name
Reference	**state router** *named-item-64* **mpls lsp** *named-item-64*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum consecutive timeouts before terminating test
Context	oam lsp-trace sr-te max-fail *number*
Tree	max-fail
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum TTL
Context	oam lsp-trace sr-te max-ttl *number*
Tree	max-ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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min-ttl *number*

Synopsis	Initial TTL for the test
Context	oam lsp-trace sr-te min-ttl *number*
Tree	min-ttl
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address to use with path destination
Context	oam lsp-trace sr-te next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format for the result
Context	oam lsp-trace sr-te output-format *keyword*
Tree	output-format
Options	summary, detail
Default	summary
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path *reference*

Synopsis	Name of the MPLS path to test
Context	oam lsp-trace sr-te path *reference*
Tree	path
Reference	**state router** *named-item-64* **mpls path** *named-item-64*

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	oam lsp-trace sr-te path-destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	path-destination
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of OAM trace probes to send per TTL
Context	oam lsp-trace sr-te probe-count *number*
Tree	probe-count
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted echo request packets
Context	oam lsp-trace sr-te profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Echo request packet pad size

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Context	oam lsp-trace sr-te size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	oam lsp-trace sr-te source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time to wait for a reply after sending an echo request
Context	oam lsp-trace sr-te timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lsp-treetrace

Synopsis	Perform a Label Switched Path (LSP) treetrace test
Context	oam lsp-treetrace
Tree	lsp-treetrace
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

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sr-ospf

Synopsis	Perform an LSP treetrace test for SR-OSPF
Context	oam lsp-treetrace sr-ospf
Tree	sr-ospf
Description	When specified, the router performs an LSP treetrace test for an IPv4 SR-OSPF node-SID tunnel. When the user runs this command, the sender node originates successive TTL incrementing LSP trace probes to discover the ECMP paths of an IPv4 SR-OSPF node-SID tunnel. The probes operate on the IPv4 SR-OSPF tunnel prefix in the specified OSPFv2 instance and on the node SID programmed in Segment Routing algorithm zero topology.
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

downstream-map-tlv *keyword*

Synopsis	Downstream Mapping TLV type in MPLS Echo Request PDU
Context	oam lsp-treetrace sr-ospf downstream-map-tlv *keyword*
Tree	downstream-map-tlv
Description	This command specifies the format of the Downstream Mapping TLV to use in the transmitted Echo Request packets.
Options	dsmap – Send a Downstream Mapping TLV ddmap – Send a Downstream Detailed Mapping TLV
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	QoS FC for the transmitted Echo Request packets
Context	oam lsp-treetrace sr-ospf fc *keyword*
Tree	fc
Description	This command specifies the command options used to indicate the forwarding class and profile of the MPLS Echo Request packet. When the CPM generates an MPLS Echo Request packet and forwards it to the outgoing interface, the packet is queued in the egress network queue corresponding to the specified FC and profile command options. The LSP-EXP mappings on the outgoing interface control the marking of the packet MPLS header EXP field.

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When the responding node receives the MPLS Echo Request packet, the LSP-EXP mappings of the incoming interface control the FC and profile command options.

When the CPM generates an MPLS Echo Reply packet and forwards it to the outgoing interface, the packet is queued in the egress network queue corresponding to the command option values. These values are derived from the classification of the Echo Request packet, which is being replied to, at the incoming interface. The LSP-EXP mappings on the outgoing interface control the marking of the EXP of the packet MPLS header EXP field. The ToS byte is not modified.

Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR-OSPF test
Context	oam lsp-treetrace sr-ospf igp-instance *number*
Tree	igp-instance
Description	This command specifies the IGP instance used to look up the node SID prefix.
Range	0 to 31
Default	0
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

max-fail *number*

Synopsis	Maximum number of consecutive timeouts allowed
Context	oam lsp-treetrace sr-ospf max-fail *number*
Tree	max-fail
Description	This command specifies the maximum number of consecutive timeouts allowed before terminating the test.
Range	1 to 255

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Default	5
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

max-path *number*

Synopsis	Maximum number of paths discoverable for the LSP prefix
Context	oam lsp-treetrace sr-ospf max-path *number*
Tree	max-path
Description	This command specifies the maximum number of paths that can be successfully discovered for the specific LSP prefix. The paths that fail to reach the specific LSP prefix destination, while included in the result, are not considered as part of this limit.
Range	1 to 256
Default	128
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

max-ttl *number*

Synopsis	Maximum time-to-live value for the test
Context	oam lsp-treetrace sr-ospf max-ttl *number*
Tree	max-ttl
Description	This command specifies the TTL value for the treetrace test of the transmitted MPLS Echo Request packets.
Range	1 to 255
Default	30
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Format of display output
Context	oam lsp-treetrace sr-ospf output-format *keyword*
Tree	output-format
Options	summary – Display summarized information detail – Display detailed information

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Default	summary
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for the test
Context	oam lsp-treetrace sr-ospf prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Description	This command specifies the address and length of the target node-SID prefix of the IPv4 SR-OSPF tunnel.
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the transmitted Echo Request packets
Context	oam lsp-treetrace sr-ospf profile *keyword*
Tree	profile
Description	This command specifies the QoS profile state setting of the transmitted MPLS Echo Request packets.
Options	in – In profile out – Out of profile
Default	out
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

source-ip-address *ipv4-address*

Synopsis	Source IP address
Context	oam lsp-treetrace sr-ospf source-ip-address *ipv4-address*
Tree	source-ip-address
Description	This command specifies the source IP address. This command is used when an OAM packet must be generated from an address other than the system interface address of the node. The address must be from a prefix that is routable in the network.

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

timeout *number*

Synopsis	Time router waits for reply after sending Echo Request
Context	oam lsp-treetrace sr-ospf timeout *number*
Tree	timeout
Description	This command specifies the time used to override the default timeout value and is the amount of time that the router waits for an Echo Reply message after sending the Echo Request message. After the expiration of the message timeout, the requesting router assumes that the Echo Reply message is not received. The system displays a Request Timeout message for each Echo Request message sent that expires. Any response Echo Reply message received after the request times out is silently discarded.
Range	1 to 60
Units	seconds
Default	3
Introduced	26.7.R1
Platforms	7705 SAR Gen 2

oam-pm

Synopsis	Initiate an on-demand OAM Performance Monitoring test
Context	oam oam-pm
Tree	oam-pm
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

action *keyword*

Synopsis	OAM-PM test action
Context	oam oam-pm action *keyword*
Tree	action
Options	start, stop

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

session *reference*

Synopsis	OAM-PM session name
Context	oam oam-pm session *reference*
Tree	session
Reference	**state oam-pm session** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

test-type *keyword*

Synopsis	Test type
Context	oam oam-pm test-type *keyword*
Tree	test-type
Options	dm – MPLS Delay Measurement test dmm – Ethernet Delay Measurement Message test lmm – Ethernet Loss Measurement Message test slm – Ethernet Synthetic Loss Message test twamp-light – IP Two-Way Active Measurement Protocol (Light) test
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

saa

Synopsis	Start or stop a Service Assurance Agent test
Context	oam saa
Tree	saa
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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owner [owner-name] *reference* test *reference*

Synopsis	SAA owner name
Context	oam saa owner *reference* test *reference*
Tree	owner
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**owner-name**] *reference*

Synopsis	Name of the owner of SAA test
Context	oam saa owner *reference* test *reference*
Tree	owner
MD-CLI default	TiMOS CLI
Reference	**state saa owner** *named-item* **test** *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

test *reference*

Synopsis	Name of the SAA test
Context	oam saa owner *reference* test *reference*
Tree	owner
Reference	**state saa owner** *named-item* **test** *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

start

Synopsis	Start the SAA test
Context	oam saa owner *reference* test *reference* start
Tree	start

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

accounting *boolean*

Synopsis	Disable recording results in accounting policy
Context	oam saa owner *reference* test *reference* start accounting *boolean*
Tree	accounting
Default	true
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

stop

Synopsis	Stop the SAA test
Context	oam saa owner *reference* test *reference* stop
Tree	stop
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

accounting *boolean*

Synopsis	Disable recording results in accounting policy
Context	oam saa owner *reference* test *reference* stop accounting *boolean*
Tree	accounting
Default	true
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

service-activation-testhead

Synopsis	Start or stop Service Activation Testhead service test
Context	oam service-activation-testhead
Tree	service-activation-testhead
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

service-test [service-test-name] *reference*

Synopsis	Service test name
Context	oam service-activation-testhead service-test *reference*
Tree	service-test
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**service-test-name**] *reference*

Synopsis	Name of the service test to be started or stopped
Context	oam service-activation-testhead service-test *reference*
Tree	service-test
Reference	**state test-oam** *named-item-64*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

start

Synopsis	Start OAM SATH service test
Context	oam service-activation-testhead service-test *reference* start
Tree	start
Description	This command starts an OAM Service Activtation Testhead (SATH) service test. Only one instance of a service test is allowed for the specified *service-test-name*. If the user attempts to start another instance of a service test for the same *service-test-name* while the current instance is still running, an error is generated.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

stop

Synopsis	Stop OAM SATH service test
Context	oam service-activation-testhead service-test *reference* stop

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Tree	stop
Description	This command stops an OAM Service Activtation Testhead (SATH) service test. If the user attempts to stop a service test that is already complete, an error is generated.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

password

Synopsis	Change the local user password
Context	password
Tree	password
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ping

Synopsis	Ping an IP address or DNS name
Context	ping
Tree	ping
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

bypass-routing

Synopsis	Bypass routing table when sending ping request to host
Context	ping bypass-routing
Tree	bypass-routing
Description	When configured, the system bypasses the routing table when sending the ping request to a host on a directly-attached network. If the host is not on a directly-attached network, an error is returned.
Notes	The following elements are part of a choice: **bypass-routing**, **interface**, **next-hop-address**, or **subscriber**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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candidate-path

Synopsis	Ping candidate path of the SRv6 policy
Context	ping candidate-path
Tree	candidate-path
Description	When configured, this command allows the user to specify a candidate path of the SRv6 policy to ping. The candidate path does not need to be the currently active candidate path.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

color *number*

Synopsis	Color identifier of the Segment Routing IPv6 policy
Context	ping color *number*
Tree	color
Max. range	0 to 4294967295
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

count *number*

Synopsis	Number of ping requests to send to the remote host
Context	ping count *number*
Tree	count
Range	1 to 100000
Units	packets
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name

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Context	ping [destination] *(ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-spaces)*
Tree	[destination]
String length	1 to 128
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

distinguisher *number*

Synopsis	SRv6 policy candidate path distinguisher
Context	ping distinguisher *number*
Tree	distinguisher
Description	This command specifies the distinguisher of the SRv6 policy candidate path to send the ping probe on. This command must be configured if the **protocol-owner** command is configured to **bgp**.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

do-not-fragment

Synopsis	Do not fragment echo request packets (valid for IPv4)
Context	ping do-not-fragment
Tree	do-not-fragment
Description	This command sets the Do Not Fragment (DF) bit in the IPv4 header. This prevents packet fragmentation along the path when there is an MTU mismatch.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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endpoint *ipv6-unicast-or-zero-address*

Synopsis	Endpoint identifier of the Segment Routing IPv6 policy to be pinged
Context	ping endpoint *ipv6-unicast-or-zero-address*
Tree	endpoint
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

fc *keyword*

Synopsis	Forwarding class option for the transmitted packet
Context	ping fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	nc
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interface *(reference* | *reference* | *reference* | *reference* | *reference)*

Synopsis	Sending interface name
Context	ping interface *(reference* | *reference* | *reference* | *reference* | *reference)*
Tree	interface
Reference	**state router** *named-item-64* **interface** *interface-name* **state service ies** *service-name* **interface** *interface-name* **state service ies** *service-name interface-name* **state service vprn** *service-name* **interface** *interface-name* **state service vprn** *service-name interface-name*

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Notes	The following elements are part of a choice: **bypass-routing**, **interface**, **next-hop-address**, or **subscriber**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interval *(number | decimal-number)*

Synopsis	Time between consecutive ping requests
Context	ping interval *(number | decimal-number)*
Tree	interval
Range	1 to 10000
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

next-hop-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next-hop address to send packet, ignoring routing table
Context	ping next-hop-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop-address
Description	This command specifies the next-hop address. The system does not use the routing table and the address must be on an adjacent router attached to a common subnet.
Notes	The following elements are part of a choice: **bypass-routing**, **interface**, **next-hop-address**, or **subscriber**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

output-format *keyword*

Synopsis	Output format
Context	ping output-format *keyword*
Tree	output-format
Options	summary, detail
Default	detail

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

pattern *(keyword | number)*

Synopsis	Pattern string to include in the packet
Context	ping pattern *(keyword | number)*
Tree	pattern
Range	0 to 65535
Options	sequential
Default	sequential
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

preference *number*

Synopsis	SRv6 policy candidate path preference
Context	ping preference *number*
Tree	preference
Description	This command specifies the preference of the SRv6 policy candidate path to send the ping probe on.
Max. range	0 to 4294967295
Default	100
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

protocol-owner *keyword*

Synopsis	Protocol owner
Context	ping protocol-owner *keyword*
Tree	protocol-owner
Description	This command specifies the protocol owner of the SRv6 policy candidate path to ping. The **bgp** option specifies a BGP SRv6 policy. The **static** option specifies a locally configured static SRv6 policy.
Options	bgp, static

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

router-instance *(reference | reference)*

Synopsis	Router name or VPRN service name
Context	ping router-instance *(reference | reference)*
Tree	router-instance
Default	Base
Reference	**state router** *named-item-64* **state service vprn** *service-name*
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

segment-list *number*

Synopsis	Segment Routing IPv6 segment list to be pinged
Context	ping segment-list *number*
Tree	segment-list
Range	1 to 32
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Request packet size including ICMP header and payload
Context	ping size *number*
Tree	size
Range	0 to 16384
Units	bytes
Default	56

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address used in the ICMP Echo Request packet
Context	ping source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

srv6-policy

Synopsis	Ping a Segment Routing IPv6 policy
Context	ping srv6-policy
Tree	srv6-policy
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

subscriber *subscriber-id*

Synopsis	Subscriber ID for sending ICMP Echo Request packets
Context	ping subscriber *subscriber-id*
Tree	subscriber
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **bypass-routing**, **interface**, **next-hop-address**, or **subscriber**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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timeout *number*

Synopsis	Wait time for the ICMP Echo Reply packet
Context	ping timeout *number*
Tree	timeout
Description	This command specifies the time to wait for the ICMP Echo Reply packet. The timer is started when the last ICMP Echo Request is sent.
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

tos *number*

Synopsis	Type of Service (ToS) bits in the IP header
Context	ping tos *number*
Tree	tos
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Time to Live (TTL) included in the request packet
Context	ping ttl *number*
Tree	ttl
Range	1 to 128
Default	64
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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pwc

Synopsis	Show the present working context
Context	pwc
Tree	pwc
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**path-type**] *keyword*

Synopsis	Alternative format to display the path
Context	pwc [path-type] *keyword*
Tree	[path-type]
Description	This command provides alternative formats to display the present working context. The **gnmi-path** option replaces the **xpath** option.
Options	model-path – YANG-modeled format for RESTCONF gnmi-path – gNMI format for streaming telemetry cli-path – MD-CLI format on a single line for copying and pasting json-instance-path – YANG-modeled format for pySROS
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

previous

Synopsis	Display previous working context
Context	pwc previous
Tree	previous
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

pyexec [url] *(string | string)*

Synopsis	Execute a Python application
Context	pyexec *(string | string)*
Tree	pyexec
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

[**url**] *(string | string)*

Synopsis	Location of the script to be executed
Context	pyexec *(string | string)*
Tree	pyexec
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-01**] *string*

Synopsis	First argument
Context	pyexec *(string | string)* [argument-01] *string*
Tree	[argument-01]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-02**] *string*

Synopsis	Second argument
Context	pyexec *(string | string)* [argument-02] *string*
Tree	[argument-02]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-03**] *string*

Synopsis	Third argument
Context	pyexec *(string | string)* [argument-03] *string*
Tree	[argument-03]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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[**argument-04**] *string*

Synopsis	Fourth argument
Context	pyexec *(string* | *string)* [argument-04] *string*
Tree	[argument-04]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-05**] *string*

Synopsis	Fifth argument
Context	pyexec *(string* | *string)* [argument-05] *string*
Tree	[argument-05]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-06**] *string*

Synopsis	Sixth argument
Context	pyexec *(string* | *string)* [argument-06] *string*
Tree	[argument-06]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-07**] *string*

Synopsis	Seventh argument
Context	pyexec *(string* | *string)* [argument-07] *string*
Tree	[argument-07]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-08**] *string*

Synopsis	Eight argument

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Context	pyexec *(string* | *string)* [argument-08] *string*
Tree	[argument-08]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-09**] *string*

Synopsis	Ninth argument
Context	pyexec *(string* | *string)* [argument-09] *string*
Tree	[argument-09]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-10**] *string*

Synopsis	Tenth argument
Context	pyexec *(string* | *string)* [argument-10] *string*
Tree	[argument-10]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-11**] *string*

Synopsis	Eleventh argument
Context	pyexec *(string* | *string)* [argument-11] *string*
Tree	[argument-11]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-12**] *string*

Synopsis	Twelfth argument
Context	pyexec *(string* | *string)* [argument-12] *string*
Tree	[argument-12]
Introduced	25.7.R1

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Platforms	7705 SAR Gen 2

[**argument-13**] *string*

Synopsis	Thirteenth argument
Context	pyexec *(string* | *string)* [argument-13] *string*
Tree	[argument-13]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-14**] *string*

Synopsis	Fourteenth argument
Context	pyexec *(string* | *string)* [argument-14] *string*
Tree	[argument-14]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-15**] *string*

Synopsis	Fifteenth argument
Context	pyexec *(string* | *string)* [argument-15] *string*
Tree	[argument-15]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-16**] *string*

Synopsis	Sixteenth argument
Context	pyexec *(string* | *string)* [argument-16] *string*
Tree	[argument-16]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

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[**argument-17**] *string*

Synopsis	Seventeenth argument
Context	pyexec *(string* | *string)* [argument-17] *string*
Tree	[argument-17]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-18**] *string*

Synopsis	Eighteenth argument
Context	pyexec *(string* | *string)* [argument-18] *string*
Tree	[argument-18]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-19**] *string*

Synopsis	Nineteenth argument
Context	pyexec *(string* | *string)* [argument-19] *string*
Tree	[argument-19]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-20**] *string*

Synopsis	Twentieth argument
Context	pyexec *(string* | *string)* [argument-20] *string*
Tree	[argument-20]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

quit-config

Synopsis	Exit the candidate configuration mode

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Context	quit-config
Tree	quit-config
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ssh

Synopsis	SSH to an IP address or DNS name
Context	ssh
Tree	ssh
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name
Context	ssh [destination] *(ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-spaces)*
Tree	[destination]
String length	1 to 128
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

key-re-exchange

Synopsis	Enter the **key-re-exchange** context
Context	ssh key-re-exchange
Tree	key-re-exchange
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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mbytes *(number | keyword)*

Synopsis	Maximum bytes before initiating key re-exchange
Context	ssh key-re-exchange mbytes *(number | keyword)*
Tree	mbytes
Description	This command specifies the number of bytes transmitted on an SSH session, after which the SSH client initiates the key re-exchange.
Range	1 to 64000
Units	megabytes
Options	infinite
Default	1024
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

minutes *(number | keyword)*

Synopsis	Time after which SSH client initiates key re-exchange
Context	ssh key-re-exchange minutes *(number | keyword)*
Tree	minutes
Range	1 to 1440
Units	minutes
Options	infinite
Default	60
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

login-name *string-not-all-spaces*

Synopsis	SSH login username
Context	ssh login-name *string-not-all-spaces*
Tree	login-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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port *number*

Synopsis	TCP listening port on SSH client for SSH session
Context	ssh port *number*
Tree	port
Description	This command configures the listening port for the SR OS SSH client to establish the SSH session with the SSH server.
Range	1 to 65535
Default	22
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

private-key-file *string*

Synopsis	SSH private key file for public-key authentication
Context	ssh private-key-file *string*
Tree	private-key-file
Description	This command configures the name of the file containing the private key for public-key authentication on the SR OS SSH client, up to 255 characters. (The public key must be provided to the SSH server.) If the file containing the private key is encrypted, the system asks for the password to decrypt the file.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

router-instance *(string | string)*

Synopsis	Router name or VPRN service name
Context	ssh router-instance *(string | string)*
Tree	router-instance
Default	Base
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

telnet

Synopsis	Telnet to an IP address or DNS name

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Context	telnet
Tree	telnet
Description	This command opens a Telnet session to a remote host. In SR OS, the Telnet servers limit Telnet clients to three login attempts; if unsuccessful, the Telnet client session disconnects. The number is not user configurable.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name
Context	telnet [destination] *(ipv4-address-with-zone | ipv6-address-with-zone | string-not-all-spaces)*
Tree	[destination]
Description	This command specifies the IP address or DNS name (if DNS name resolution is configured) of the remote host for the Telnet session.
String length	1 to 128
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

port *number*

Synopsis	Remote host TCP port for the Telnet connection
Context	telnet port *number*
Tree	port
Range	1 to 65535
Default	23
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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router-instance *(string | string)*

Synopsis	Router name or VPRN service name
Context	telnet router-instance *(string | string)*
Tree	router-instance
Default	Base
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address of the Telnet packets
Context	telnet source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

top

Synopsis	Move to the top level of the context
Context	top
Tree	top
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

traceroute

Synopsis	Show the route taken to an IP address or DNS name
Context	traceroute
Tree	traceroute
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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candidate-path

Synopsis	Trace route of the candidate path of the SRv6 policy
Context	traceroute candidate-path
Tree	candidate-path
Description	When configured, this command allows the user to specify a candidate path of the SRv6 policy to traceroute. The candidate path does not need to be the currently active candidate path.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

color *number*

Synopsis	Color ID of the SRv6 policy to trace
Context	traceroute color *number*
Tree	color
Description	This command launches a traceroute of an SRv6 policy that matches a specific color.
Max. range	0 to 4294967295
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

decode *keyword*

Synopsis	Perform original datagram parsing functions
Context	traceroute decode *keyword*
Tree	decode
Options	none, original-datagram
Default	none
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

dest-port *number*

Synopsis	Transport protocol destination port number

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Context	traceroute dest-port *number*
Tree	dest-port
Range	1 to 65535
Default	33434
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

dest-port-udp-fixed

Synopsis	Avoid increment of destination port number for UDP test
Context	traceroute dest-port-udp-fixed
Tree	dest-port-udp-fixed
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**destination**] *(ipv4-address-no-zone | ipv6-address-no-zone | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name
Context	traceroute [destination] *(ipv4-address-no-zone | ipv6-address-no-zone | string-not-all-spaces)*
Tree	[destination]
String length	1 to 128
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

detail

Synopsis	Display MPLS label stack information or TCP port status
Context	traceroute detail
Tree	detail
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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distinguisher *number*

Synopsis	SRv6 policy candidate path distinguisher
Context	traceroute distinguisher *number*
Tree	distinguisher
Description	This command specifies the distinguisher of the SRv6 policy candidate path to send the traceroute probe on. This command must be configured if the **protocol-owner** command is configured to **bgp**.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

endpoint *ipv6-unicast-or-zero-address*

Synopsis	Endpoint of the SRv6 policy to trace
Context	traceroute endpoint *ipv6-unicast-or-zero-address*
Tree	endpoint
Description	This command configures an IPv6 endpoint address for an SRv6 policy as the target of the traceroute.
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

min-ttl *number*

Synopsis	First hop traceroute probes using the TTL value
Context	traceroute min-ttl *number*
Tree	min-ttl
Description	This command specifies the first hop traceroute probes, using the **ttl** value.
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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numeric

Synopsis	Display IP addresses instead of DNS names
Context	traceroute numeric
Tree	numeric
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

preference *number*

Synopsis	SRv6 policy candidate path preference
Context	traceroute preference *number*
Tree	preference
Description	This command specifies the preference of the SRv6 policy candidate path to send the traceroute probe on.
Max. range	0 to 4294967295
Default	100
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

probe-count *number*

Synopsis	Number of probes to send per hop
Context	traceroute probe-count *number*
Tree	probe-count
Range	1 to 10
Default	3
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

protocol *keyword*

Synopsis	Packet type to send
Context	traceroute protocol *keyword*
Tree	protocol

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Description	This command sets the transport protocol, UDP or TCP, for the traceroute packet. A targeted VPRN service silently discards TCP traceroutes and only responds to UDP traceroutes.
Options	udp, tcp
Default	udp
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

protocol-owner *keyword*

Synopsis	Protocol owner
Context	traceroute protocol-owner *keyword*
Tree	protocol-owner
Description	This command specifies the protocol owner of the SRv6 policy candidate path to traceroute. The **bgp** option specifies a BGP SRv6 policy. The **static** option specifies a locally configured static SRv6 policy.
Options	bgp, static
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	traceroute router-instance *string*
Tree	router-instance
Default	Base
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

segment-list *number*

Synopsis	SR IPv6 segment list to trace
Context	traceroute segment-list *number*

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Tree	segment-list
Description	This command configures the traceroute probe to target a specific segment list of an SRv6 policy. When the segment list is not specified, the traceroute probe is sent on the lowest available segment list.
Range	1 to 32
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

size *number*

Synopsis	Number of pad bytes in each transmitted packet
Context	traceroute size *number*
Tree	size
Range	0 to 9786
Units	bytes
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address of the probe packets
Context	traceroute source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Description	This command specifies the source address of the probe packets. If the IP address is not one of the interfaces of the device, the system returns an error.
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

srv6-policy

Synopsis	Trace an SRv6 policy

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Context	traceroute srv6-policy
Tree	srv6-policy
Description	This command launches a traceroute of a Segment Routing IPv6 (SRv6) policy.
Notes	The following elements are part of a mandatory choice: (**destination**, **router-instance**, and **source-address**) or (**color**, **endpoint**, **segment-list**, and **srv6-policy**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

tos *number*

Synopsis	Type of Service (ToS) bits in the IP header
Context	traceroute tos *number*
Tree	tos
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ttl *number*

Synopsis	Maximum number of hops (TTL) to probe
Context	traceroute ttl *number*
Tree	ttl
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

wait *number*

Synopsis	Time to wait for a response to the probe
Context	traceroute wait *number*
Tree	wait
Range	10 to 60000
Units	milliseconds

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Default	5000
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

tree

Synopsis	Show the command tree under the present working context
Context	tree
Tree	tree
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc
Context	tree [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

detail

Synopsis	Display the tree with keys and field values
Context	tree detail
Tree	detail
Notes	The following elements are part of a choice: (**detail** and **flat**) or **path-format**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

flat

Synopsis	Show the context from the pwc on each line
Context	tree flat
Tree	flat
Notes	The following elements are part of a choice: (**detail** and **flat**) or **path-format**.

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**path-format**] *keyword*

Synopsis	Alternative format to display the path
Context	tree [path-format] *keyword*
Tree	[path-format]
Description	This option outputs the tree information in alternative YANG formats for use in external tools, such as pySROS, gNMI, or the Network Services Platform (NSP).
Options	model-path – YANG-modeled format for RESTCONF gnmi-path – gNMI format for streaming telemetry json-instance-path – YANG-modeled format for pySROS
Notes	The following elements are part of a choice: (**detail** and **flat**) or **path-format**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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2.5 Output modifier commands

See “Using output modifiers in the MD-CLI” in the *7705 SAR Gen 2 MD-CLI User Guide* for more information.

```
– |
   – count
   – match string
      – ignore-case boolean
      – invert-match boolean
      – max-count number
      – post-lines number
      – pre-lines number
   – no-more
   – pyexec (string | reference)
      – [argument-01] string
      – [argument-02] string
      – [argument-03] string
      – [argument-04] string
      – [argument-05] string
      – [argument-06] string
      – [argument-07] string
      – [argument-08] string
      – [argument-09] string
      – [argument-10] string
      – [argument-11] string
      – [argument-12] string
      – [argument-13] string
      – [argument-14] string
      – [argument-15] string
      – [argument-16] string
      – [argument-17] string
      – [argument-18] string
      – [argument-19] string
      – [argument-20] string
   – repeat
      – count number
      – [interval] number
      – timestamp
   – reverse-dns
– > (cflash-url | ftp-tftp-url)
– >> cflash-url
```


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2.5.1 Output modifier command descriptions

|

Synopsis	Apply an output modifier
Context	|
Tree	|
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

count

Synopsis	Show the line count of the output
Context	| count
Tree	count
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

match [pattern] *string*

Synopsis	Match on a string (") or regular expression (')
Context	| match *string*
Tree	match
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[pattern] *string*

Synopsis	String (") or regular expression (') pattern to match
Context	| match *string*
Tree	match
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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ignore-case *boolean*

Synopsis	Ignore case in pattern match
Context	| match *string* ignore-case *boolean*
Tree	ignore-case
Default	false
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

invert-match *boolean*

Synopsis	Invert the pattern match selection
Context	| match *string* invert-match *boolean*
Tree	invert-match
Default	false
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

max-count *number*

Synopsis	Maximum number of displayed matches
Context	| match *string* max-count *number*
Tree	max-count
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

post-lines *number*

Synopsis	Number of lines to display following the matched line
Context	| match *string* post-lines *number*
Tree	post-lines
Range	0 to 4294967295
Default	0
Introduced	25.3.R2

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Platforms	7705 SAR Gen 2

pre-lines *number*

Synopsis	Number of lines to display preceding the matched line
Context	| match *string* pre-lines *number*
Tree	pre-lines
Range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

no-more

Synopsis	Prevent pagination for the displayed output
Context	| no-more
Tree	no-more
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

pyexec [url] *(string | reference)*

Synopsis	Execute a Python application
Context	| pyexec *(string | reference)*
Tree	pyexec
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**url**] *(string | reference)*

Synopsis	Location of the script to be executed
Context	| pyexec *(string | reference)*
Tree	pyexec
Reference	**state python python-script name**
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-01**] *string*

Synopsis	First argument
Context	| pyexec *(string | reference)* [argument-01] *string*
Tree	[argument-01]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-02**] *string*

Synopsis	Second argument
Context	| pyexec *(string | reference)* [argument-02] *string*
Tree	[argument-02]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-03**] *string*

Synopsis	Third argument
Context	| pyexec *(string | reference)* [argument-03] *string*
Tree	[argument-03]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-04**] *string*

Synopsis	Fourth argument
Context	| pyexec *(string | reference)* [argument-04] *string*
Tree	[argument-04]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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[**argument-05**] *string*

Synopsis	Fifth argument
Context	| pyexec *(string* | *reference)* [argument-05] *string*
Tree	[argument-05]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-06**] *string*

Synopsis	Sixth argument
Context	| pyexec *(string* | *reference)* [argument-06] *string*
Tree	[argument-06]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-07**] *string*

Synopsis	Seventh argument
Context	| pyexec *(string* | *reference)* [argument-07] *string*
Tree	[argument-07]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-08**] *string*

Synopsis	Eight argument
Context	| pyexec *(string* | *reference)* [argument-08] *string*
Tree	[argument-08]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-09**] *string*

Synopsis	Ninth argument

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Context	| pyexec *(string | reference)* [argument-09] *string*
Tree	[argument-09]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-10**] *string*

Synopsis	Tenth argument
Context	| pyexec *(string | reference)* [argument-10] *string*
Tree	[argument-10]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**argument-11**] *string*

Synopsis	Eleventh argument
Context	| pyexec *(string | reference)* [argument-11] *string*
Tree	[argument-11]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-12**] *string*

Synopsis	Twelfth argument
Context	| pyexec *(string | reference)* [argument-12] *string*
Tree	[argument-12]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-13**] *string*

Synopsis	Thirteenth argument
Context	| pyexec *(string | reference)* [argument-13] *string*
Tree	[argument-13]
Introduced	25.7.R1

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Platforms	7705 SAR Gen 2

[**argument-14**] *string*

Synopsis	Fourteenth argument
Context	| pyexec *(string* | *reference)* [argument-14] *string*
Tree	[argument-14]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-15**] *string*

Synopsis	Fifteenth argument
Context	| pyexec *(string* | *reference)* [argument-15] *string*
Tree	[argument-15]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-16**] *string*

Synopsis	Sixteenth argument
Context	| pyexec *(string* | *reference)* [argument-16] *string*
Tree	[argument-16]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-17**] *string*

Synopsis	Seventeenth argument
Context	| pyexec *(string* | *reference)* [argument-17] *string*
Tree	[argument-17]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

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[**argument-18**] *string*

Synopsis	Eighteenth argument
Context	| pyexec *(string* | *reference)* [argument-18] *string*
Tree	[argument-18]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-19**] *string*

Synopsis	Nineteenth argument
Context	| pyexec *(string* | *reference)* [argument-19] *string*
Tree	[argument-19]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

[**argument-20**] *string*

Synopsis	Twentieth argument
Context	| pyexec *(string* | *reference)* [argument-20] *string*
Tree	[argument-20]
Introduced	25.7.R1
Platforms	7705 SAR Gen 2

repeat

Synopsis	Repeat the command
Context	| repeat
Tree	repeat
Description	Commands in this context configure the command to repeat.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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count *number*

Synopsis	Command repetition count
Context	| repeat count *number*
Tree	count
Range	1 to 65535
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**interval**] *number*

Synopsis	Command repetition interval
Context	| repeat [interval] *number*
Tree	[interval]
Description	This command configures the command repetition interval. If this command is not specified, the command repeats until interrupted with Ctrl-C.
Range	10 to 86400000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

timestamp

Synopsis	Display the timestamp before each repetition
Context	| repeat timestamp
Tree	timestamp
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

reverse-dns

Synopsis	Resolve IP addresses to DNS names in input
Context	| reverse-dns
Tree	reverse-dns

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

> [url] *(cflash-url | ftp-tftp-url)*

Synopsis	Redirect output to a file
Context	> *(cflash-url | ftp-tftp-url)*
Tree	>
Introduced	25.3.R4
Platforms	7705 SAR Gen 2

[**url**] *(cflash-url | ftp-tftp-url)*

Synopsis	Location to save the output
Context	> *(cflash-url | ftp-tftp-url)*
Tree	>
String length	1 to 199
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'ftp-tftp-url' must be ftp:// or tftp:// with host and path (e.g. ftp://user:pass@hostname.domain/path/file) 'ftp-tftp-url' must have valid hostname and optional path after scheme
Notes	This element is part of a list key.
Introduced	25.3.R4
Platforms	7705 SAR Gen 2

>> [url] *cflash-url*

Synopsis	Append output to a local file
Context	>> *cflash-url*
Tree	>>
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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[**url**] *cflash-url*

Synopsis	Local location to append the output
Context	>> *cflash-url*
Tree	>>
String length	1 to 199
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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2.6 perform commands

The **perform** commands are YANG-modeled versions of the **tools perform** commands and are available in MD-CLI and NETCONF interfaces. The **perform** commands execute actions in the router, such as:

- force a LAG subgroup to become active
- set an IS-IS overload condition
- terminate a Python script

```
perform
   – card number
      – power-cycle
   – chassis reference chassis-number reference
      – check-backplane-eprom
   – filter
      – ip-filter reference
         – entry reference
            – activate-primary-action
      – ipv6-filter reference
         – entry reference
            – activate-primary-action
      – redirect-policy reference
         – activate-best-dest
   – gnss
      – restart-position-survey
         – all
         – port
            – [port] reference
   – lag
      – clear-force
         – lag
            – [lag-name] reference
            – sub-group number
         – multi-chassis
            – all
            – peer
               – [ip-address] reference
      – force-active
         – lag
            – [lag-name] reference
            – sub-group number
         – multi-chassis
            – all
            – peer
               – [ip-address] reference
      – force-standby
         – lag
            – [lag-name] reference
            – sub-group number
         – multi-chassis
            – all
            – peer
               – [ip-address] reference
      – load-balance
         – class number
         – [lag-name] reference
   – log
      – custom-event
         – [event-number] number
         – message-string string
```


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perform log custom-event parameter1

```
        - parameter1 string
        - parameter2 string
        - parameter3 string
        - parameter4 string
        - parameter5 string
        - parameter6 string
        - parameter7 string
        - parameter8 string
        - subject string
     - test-event
        - custom-text string
  - mda
     - card-slot reference
        - mda-slot reference
           - ptp-reset
  - pcap reference
     - capture
        - start
           - timestamp boolean
           - url-suffix string
        - stop
  - port reference
     - serial
        - rs232
           - socket reference
              - rx
                 - squelch-reset
  - python
     - python-script
        - protect
           - hmac-sha256-key string
           - input-file string
           - output-file string
        - reload
           - script
              - [name] reference
  - router string
     - isis reference
        - ldp-sync-exit
        - overload
           - max-metric boolean
           - [seconds] number
        - run-manual-spf
     - mcast-umh-red
        - show
           - pair
              - card number
              - pair-id number
              - summary
     - pim
        - mc-ecmp-rebalance
           - threshold number
        - show
           - iom-failures
              - detail boolean
  - service
     - cpipe reference
        - sap reference
           - cem
              - asym-delay-adjust
     - ies reference
        - ip-transport reference
           - remote-host reference
              - check-tcp
```


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perform service vprn

```
      – vprn reference
         – ip-transport reference
            – remote-host reference
               – check-tcp
   – system
      – grpc
         – custom-proto reference
            – reload
      – script-control
         – script-policy
            – stop
               – all
               – owner reference
               – policy-name reference
      – security
         – secure-boot
            – show
               – uefi-variables
                  – card reference
      – ssh
         – generate-keypair
            – ecdsa-curve keyword
            – ed25519
            – rsa-key-size number
            – [save-path] cflash-url
```


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2.6.1 perform command descriptions

perform

Synopsis	Perform troubleshooting and debugging
Context	perform
Tree	perform
Introduced	25.3.R2
Platforms	SAR Gen 2

card [slot-number] *number*

Synopsis	Enter the **card** list instance
Context	perform card *number*
Tree	card
Introduced	25.3.R2
Platforms	SAR Gen 2

[**slot-number**] *number*

Synopsis	Card slot number
Context	perform card *number*
Tree	card
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

power-cycle

Synopsis	Force a power cycle of a card
Context	perform card *number* power-cycle
Tree	power-cycle
Introduced	25.3.R2

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Platforms	SAR Gen 2

chassis [chassis-class] *reference* chassis-number *reference*

Synopsis	Enter the **chassis** list instance
Context	perform chassis *reference* chassis-number *reference*
Tree	chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

[**chassis-class**] *reference*

Synopsis	Physical chassis
Context	perform chassis *reference* chassis-number *reference*
Tree	chassis
Reference	**state chassis** *keyword* **chassis-number** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

chassis-number *reference*

Synopsis	Unique index ID for the physical chassis
Context	perform chassis *reference* chassis-number *reference*
Tree	chassis
Reference	**state chassis** *keyword* **chassis-number** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

check-backplane-eprom

Synopsis	Check chassis backplane EPROM
Context	perform chassis *reference* chassis-number *reference* check-backplane-eprom
Tree	check-backplane-eprom

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	perform filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-filter [filter-name] *reference*

Synopsis	Enter the **ip-filter** list instance
Context	perform filter ip-filter *reference*
Tree	ip-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[filter-name] *reference*

Synopsis	Name to associate with the IP filter
Context	perform filter ip-filter *reference*
Tree	ip-filter
Reference	**state filter ip-filter** *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *reference*

Synopsis	Enter the **entry** list instance
Context	perform filter ip-filter *reference* entry *reference*
Tree	entry
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**entry-id**] *reference*

Synopsis	ID for the IP filter entry
Context	perform filter ip-filter *reference* entry *reference*
Tree	entry
Reference	**state filter ip-filter** *filter-name* **entry** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

activate-primary-action

Synopsis	Switch from the secondary to the primary action
Context	perform filter ip-filter *reference* entry *reference* activate-primary-action
Tree	activate-primary-action
Description	This command activates the primary action for the specified filter policy entry. If the primary action is already active, the command has no effect. If a secondary action is active, the primary action is activated unless the primary target is down. If the **configure filter redirect sticky-dest** command is configured, the timer expires.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-filter [filter-name] *reference*

Synopsis	Enter the **ipv6-filter** list instance
Context	perform filter ipv6-filter *reference*
Tree	ipv6-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *reference*

Synopsis	Name to associate with the IPv6 filter
Context	perform filter ipv6-filter *reference*

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Tree	ipv6-filter
Reference	**state filter ipv6-filter** *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *reference*

Synopsis	Enter the **entry** list instance
Context	perform filter ipv6-filter *reference* entry *reference*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *reference*

Synopsis	ID for the IPv6 filter entry
Context	perform filter ipv6-filter *reference* entry *reference*
Tree	entry
Reference	**state filter ipv6-filter** *filter-name* **entry** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

activate-primary-action

Synopsis	Switch from the secondary to the primary action
Context	perform filter ipv6-filter *reference* entry *reference* activate-primary-action
Tree	activate-primary-action
Description	This command activates the primary action for the specified filter policy entry. If the primary action is already active, the command has no effect. If a secondary action is active, the primary action is activated unless the primary target is down. If the **configure filter redirect sticky-dest** command is configured, the timer expires.
Introduced	25.3.R2
Platforms	SAR Gen 2

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redirect-policy [redirect-policy-name] *reference*

Synopsis	Enter the **redirect-policy** list instance
Context	perform filter redirect-policy *reference*
Tree	redirect-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**redirect-policy-name**] *reference*

Synopsis	Name of the redirect policy
Context	perform filter redirect-policy *reference*
Tree	redirect-policy
Reference	**state filter redirect-policy** *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

activate-best-dest

Synopsis	Activate the current best destination
Context	perform filter redirect-policy *reference* activate-best-dest
Tree	activate-best-dest
Description	This command forces a PBR switch to the best destination selected by the redirect policy when that destination is not currently active as result of sticky destination functionality being enabled for the specified redirect policy. If the **configure filter redirect sticky-dest** command is configured, the timer expires.
Introduced	25.3.R2
Platforms	SAR Gen 2

gnss

Synopsis	Enter the **gnss** context
Context	perform gnss
Tree	gnss
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

restart-position-survey

Synopsis	Enter the **restart-position-survey** context
Context	perform gnss restart-position-survey
Tree	restart-position-survey
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

all

Synopsis	Restart the GNSS position survey on all GNSS ports
Context	perform gnss restart-position-survey all
Tree	all
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

port

Synopsis	Restart the position survey on the specified GNSS port
Context	perform gnss restart-position-survey port
Tree	port
Description	This command performs a restart of the GNSS position survey on the specified GNSS port.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**port**] *reference*

Synopsis	GNSS port for the GNSS position survey
Context	perform gnss restart-position-survey port [port] *reference*
Tree	[port]
Reference	**state port** *port*
Notes	This element is mandatory.

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

lag

Synopsis	Enter the **lag** context
Context	perform lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-force

Synopsis	Enter the **clear-force** context
Context	perform lag clear-force
Tree	clear-force
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Perform LAG operation on the specified LAG
Context	perform lag clear-force lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name
Context	perform lag clear-force lag [lag-name] *reference*
Tree	[lag-name]
Reference	**state lag** *lag-interface*
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

sub-group *number*

Synopsis	Sub-group in the LAG
Context	perform lag clear-force lag sub-group *number*
Tree	sub-group
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis

Synopsis	Enter the **multi-chassis** context
Context	perform lag clear-force multi-chassis
Tree	multi-chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Perform LAG operation on all multi-chassis LAGs
Context	perform lag clear-force multi-chassis all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

peer

Synopsis	Perform LAG operation on the MC peer
Context	perform lag clear-force multi-chassis peer
Tree	peer
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-address**] *reference*

Synopsis	Peer IP address
Context	perform lag clear-force multi-chassis peer [ip-address] *reference*
Tree	[ip-address]
Reference	**state redundancy multi-chassis peer** *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

force-active

Synopsis	Enter the **force-active** context
Context	perform lag force-active
Tree	force-active
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Perform LAG operation on the specified LAG
Context	perform lag force-active lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name
Context	perform lag force-active lag [lag-name] *reference*
Tree	[lag-name]
Reference	**state lag** *lag-interface*
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

sub-group *number*

Synopsis	Sub-group in the LAG
Context	perform lag force-active lag sub-group *number*
Tree	sub-group
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis

Synopsis	Enter the **multi-chassis** context
Context	perform lag force-active multi-chassis
Tree	multi-chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Perform LAG operation on all multi-chassis LAGs
Context	perform lag force-active multi-chassis all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

peer

Synopsis	Perform LAG operation on the MC peer
Context	perform lag force-active multi-chassis peer
Tree	peer
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-address**] *reference*

Synopsis	Peer IP address
Context	perform lag force-active multi-chassis peer [ip-address] *reference*
Tree	[ip-address]
Reference	**state redundancy multi-chassis peer** *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

force-standby

Synopsis	Enter the **force-standby** context
Context	perform lag force-standby
Tree	force-standby
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Perform LAG operation on the specified LAG
Context	perform lag force-standby lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name
Context	perform lag force-standby lag [lag-name] *reference*
Tree	[lag-name]
Reference	**state lag** *lag-interface*
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

sub-group *number*

Synopsis	Sub-group in the LAG
Context	perform lag force-standby lag sub-group *number*
Tree	sub-group
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis

Synopsis	Enter the **multi-chassis** context
Context	perform lag force-standby multi-chassis
Tree	multi-chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Perform LAG operation on all multi-chassis LAGs
Context	perform lag force-standby multi-chassis all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

peer

Synopsis	Perform LAG operation on the MC peer
Context	perform lag force-standby multi-chassis peer
Tree	peer
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-address**] *reference*

Synopsis	Peer IP address
Context	perform lag force-standby multi-chassis peer [ip-address] *reference*
Tree	[ip-address]
Reference	**state redundancy multi-chassis peer** *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balance

Synopsis	Perform LAG load-balance operation
Context	perform lag load-balance
Tree	load-balance
Introduced	25.3.R2
Platforms	SAR Gen 2

class *number*

Synopsis	Class used for load balancing
Context	perform lag load-balance class *number*
Tree	class
Range	1 to 3
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name
Context	perform lag load-balance [lag-name] *reference*
Tree	[lag-name]
Reference	**state lag** *lag-interface*

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

log

Synopsis	Enter the **log** context
Context	perform log
Tree	log
Introduced	25.3.R2
Platforms	SAR Gen 2

custom-event

Synopsis	Send a custom generic log event
Context	perform log custom-event
Tree	custom-event
Description	When specified, the system sends a custom generic log event. The total length of the message string and all parameter strings must be less than or equal to 2400 characters.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**event-number**] *number*

Synopsis	Custom event to send
Context	perform log custom-event [event-number] *number*
Tree	[event-number]
Range	1 to 6
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-string *string*

Synopsis	Message for the log event

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Context	perform log custom-event message-string *string*
Tree	message-string
Description	This command specifies the string for the message field of the log event. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	1 to 2000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

parameter1 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter1 *string*
Tree	parameter1
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

parameter2 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter2 *string*
Tree	parameter2
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

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parameter3 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter3 *string*
Tree	parameter3
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

parameter4 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter4 *string*
Tree	parameter4
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

parameter5 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter5 *string*
Tree	parameter5
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

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parameter6 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter6 *string*
Tree	parameter6
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

parameter7 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter7 *string*
Tree	parameter7
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

parameter8 *string*

Synopsis	Custom text of the parameter
Context	perform log custom-event parameter8 *string*
Tree	parameter8
Description	This command specifies the string for the parameter. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	0 to 2000
Introduced	25.3.R2
Platforms	SAR Gen 2

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subject *string*

Synopsis	Subject of the log event
Context	perform log custom-event subject *string*
Tree	subject
Description	This command specifies the string in the subject field of the log event. Embedded double quotes are supported by using the backslash character (\) followed by the double quote character (").
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

test-event

Synopsis	Send a test log event
Context	perform log test-event
Tree	test-event
Introduced	25.3.R2
Platforms	SAR Gen 2

custom-text *string*

Synopsis	Custom text of the test event message field
Context	perform log test-event custom-text *string*
Tree	custom-text
Description	This command specifies custom text for the message section of the test log event. Embedded double quotes are not supported in the custom-text string. There is no special treatment for or \r sequences. For example, in the custom-text string is output as the backslash character (\) and "n" (the equivalent of ASCII 0x5C and 0x6e).
String length	0 to 800
Introduced	25.3.R2
Platforms	SAR Gen 2

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mda

Synopsis	Enter the **mda** context
Context	perform mda
Tree	mda
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

card-slot [slot-number] *reference*

Synopsis	Enter the **card-slot** list instance
Context	perform mda card-slot *reference*
Tree	card-slot
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**slot-number**] *reference*

Synopsis	Card slot number
Context	perform mda card-slot *reference*
Tree	card-slot
Reference	**state card** *number*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mda-slot [mda] *reference*

Synopsis	Enter the **mda-slot** list instance
Context	perform mda card-slot *reference* mda-slot *reference*
Tree	mda-slot
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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[**mda**] *reference*

Synopsis	Card MDA slot
Context	perform mda card-slot *reference* mda-slot *reference*
Tree	mda-slot
Reference	**state card** *number* **mda** *number*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ptp-reset

Synopsis	Reset the PTP timing on the specified MDA
Context	perform mda card-slot *reference* mda-slot *reference* ptp-reset
Tree	ptp-reset
Description	This command resets the PTP timing subsystem on the specified MDA. When a PTP timeReceiver port indicates abnormal or extreme values for the offset FromMaster or the meanPathDelay, it may be because of the PTP timing subsystem of the MDA on the timeTransmitter or the timeReceiver. This command can be used to reinitialize the timing subsystem on an MDA without impacting traffic. **Note:** While this command can be used to remedy such a situation, Nokia recommends to first capture any relevant debug files for Nokia investigation.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

pcap [session-name] *reference*

Synopsis	Enter the **pcap** list instance
Context	perform pcap *reference*
Tree	pcap
Description	Commands in this context configure a PCAP instance used for packet capture.
Introduced	25.7.R1
Platforms	SAR Gen 2

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[**session-name**] *reference*

Synopsis	PCAP session name for the packet capture
Context	perform pcap *reference*
Tree	pcap
Reference	**state mirror mirror-dest** *service-name* **pcap** *named-item*
Notes	This element is part of a list key.
Introduced	25.7.R1
Platforms	SAR Gen 2

capture

Synopsis	Enter the **capture** context
Context	perform pcap *reference* capture
Tree	capture
Description	Commands in this context configure the packet capture process for a specified PCAP session.
Introduced	25.7.R1
Platforms	SAR Gen 2

start

Synopsis	Start PCAP capture
Context	perform pcap *reference* capture start
Tree	start
Description	When specified, the system starts the packet capture process and also starts the FTP or TFTP session. If the FTP or TFTP server is unreachable, the command prompt rejects further input until the retry mechanism times out after 24 seconds (four attempts of about six seconds each). If the filename (configured using the **configure mirror mirror-dest pcap** command) is unchanged between captures, this command overwrites the file content. To avoid this, configure the **url-suffix** option, the **timestamp** option, or both, to create a new filename when starting a capture.
Introduced	25.7.R1
Platforms	SAR Gen 2

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timestamp *boolean*

Synopsis	Add a timestamp to the PCAP capture filename
Context	perform pcap *reference* capture start timestamp *boolean*
Tree	timestamp
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

url-suffix *string*

Synopsis	pcap capture file-url suffix string.
Context	perform pcap *reference* capture start url-suffix *string*
Tree	url-suffix
String length	1 to 19
Introduced	25.7.R1
Platforms	SAR Gen 2

stop

Synopsis	Stop PCAP capture
Context	perform pcap *reference* capture stop
Tree	stop
Description	When specified, the system stops the packet capture process and also stops the FTP or TFTP session. If the FTP or TFTP server is unreachable, the command prompt rejects further input until the retry mechanism times out after 24 seconds (four attempts of about six seconds each).
Introduced	25.7.R1
Platforms	SAR Gen 2

port [port-id] *reference*

Synopsis	Enter the **port** list instance
Context	perform port *reference*
Tree	port
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**port-id**] *reference*

Synopsis	The port identifier
Context	perform port *reference*
Tree	port
Reference	**state port** *port*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

serial

Synopsis	Enter the **serial** context
Context	perform port *reference* serial
Tree	serial
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rs232

Synopsis	Enter the **rs232** context
Context	perform port *reference* serial rs232
Tree	rs232
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

socket [socket-id] *reference*

Synopsis	Enter the **socket** list instance
Context	perform port *reference* serial rs232 socket *reference*
Tree	socket
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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[**socket-id**] *reference*

Synopsis	The socket identifier
Context	perform port *reference* serial rs232 socket *reference*
Tree	socket
Reference	**state port** *port* **serial rs232 socket** *number*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rx

Synopsis	Enter the **rx** context
Context	perform port *reference* serial rs232 socket *reference* rx
Tree	rx
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

squelch-reset

Synopsis	Reset squelch
Context	perform port *reference* serial rs232 socket *reference* rx squelch-reset
Tree	squelch-reset
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

python

Synopsis	Enter the **python** context
Context	perform python
Tree	python
Introduced	26.7.R1
Platforms	SAR Gen 2

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python-script

Synopsis	Enter the **python-script** context
Context	perform python python-script
Tree	python-script
Introduced	26.7.R1
Platforms	SAR Gen 2

protect

Synopsis	Convert a Python file into a protected SRPY format
Context	perform python python-script protect
Tree	protect
Description	When invoked, the system converts a normal (unprotected) Python script file into a protected SRPY format using a specified key.
Introduced	26.7.R1
Platforms	SAR Gen 2

hmac-sha256-key *string*

Synopsis	Key used to compute the hash
Context	perform python python-script protect hmac-sha256-key *string*
Tree	hmac-sha256-key
String length	1 to 128
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

input-file *string*

Synopsis	URL of the input unprotected script file
Context	perform python python-script protect input-file *string*
Tree	input-file
String length	1 to 180
Notes	This element is mandatory.

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Introduced	26.7.R1
Platforms	SAR Gen 2

output-file *string*

Synopsis	URL of the output protected script file
Context	perform python python-script protect output-file *string*
Tree	output-file
String length	1 to 180
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

reload

Synopsis	Enter the **reload** context
Context	perform python python-script reload
Tree	reload
Description	Commands in this context reload and recompile the primary, secondary, and tertiary scripts in the specified Python scripts, in that order. The system uses the first script that comes up. Executing these commands may update the last modified time for the system configuration.
Introduced	26.7.R1
Platforms	SAR Gen 2

script

Synopsis	Reload and recompile the specified script
Context	perform python python-script reload script
Tree	script
Introduced	26.7.R1
Platforms	SAR Gen 2

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[**name**] *reference*

Synopsis	Name of the python script to reload
Context	perform python python-script reload script [name] *reference*
Tree	[name]
Reference	**state python python-script** *named-item*
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

router [router-instance] *string*

Synopsis	Enter the **router** list instance
Context	perform router *string*
Tree	router
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-instance**] *string*

Synopsis	Router name or VPRN service name
Context	perform router *string*
Tree	router
MD-CLI default	Base
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

isis [isis-instance] *reference*

Synopsis	Enter the **isis** list instance
Context	perform router *string* isis *reference*
Tree	isis
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**isis-instance**] *reference*

Synopsis	IS-IS instance
Context	perform router *string* isis *reference*
Tree	isis
MD-CLI default	0
Reference	**state router** *named-item-64* **isis** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-sync-exit

Synopsis	Terminate LDP synchronization and restore actual cost
Context	perform router *string* isis *reference* ldp-sync-exit
Tree	ldp-sync-exit
Introduced	25.3.R2
Platforms	SAR Gen 2

overload

Synopsis	Perform IS-IS overload
Context	perform router *string* isis *reference* overload
Tree	overload
Introduced	25.3.R2
Platforms	SAR Gen 2

max-metric *boolean*

Synopsis	Enable advertising max-metric values
Context	perform router *string* isis *reference* overload max-metric *boolean*
Tree	max-metric

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

[**seconds**] *number*

Synopsis	Overload duration
Context	perform router *string* isis *reference* overload [seconds] *number*
Tree	[seconds]
Range	60 to 1800
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

run-manual-spf

Synopsis	Run SPF algorithm
Context	perform router *string* isis *reference* run-manual-spf
Tree	run-manual-spf
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-umh-red

Synopsis	Enter the **mcast-umh-red** context
Context	perform router *string* mcast-umh-red
Tree	mcast-umh-red
Introduced	25.3.R2
Platforms	SAR Gen 2

show

Synopsis	Enter the **show** context
Context	perform router *string* mcast-umh-red show
Tree	show

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Introduced	25.3.R2
Platforms	SAR Gen 2

pair

Synopsis	Enter the pair context
Context	perform router *string* mcast-umh-red show pair
Tree	pair
Introduced	25.3.R2
Platforms	SAR Gen 2

card *number*

Synopsis	Slot number
Context	perform router *string* mcast-umh-red show pair card *number*
Tree	card
Max. range	0 to 4294967295
Notes	The following elements are part of a choice: **card**, **pair-id**, or **summary**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pair-id *number*

Synopsis	Pair ID
Context	perform router *string* mcast-umh-red show pair pair-id *number*
Tree	pair-id
Range	1 to 1000
Notes	The following elements are part of a choice: **card**, **pair-id**, or **summary**.
Introduced	25.3.R2
Platforms	SAR Gen 2

summary

Synopsis	Summary
Context	perform router *string* mcast-umh-red show pair summary

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Tree	summary
Notes	The following elements are part of a choice: **card**, **pair-id**, or **summary**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pim

Synopsis	Enter the **pim** context
Context	perform router *string* pim
Tree	pim
Description	Commands in this context enable tools to perform PIM tasks.
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ecmp-rebalance

Synopsis	Perform multicast ECMP rebalance
Context	perform router *string* pim mc-ecmp-rebalance
Tree	mc-ecmp-rebalance
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	ECMP preference level threshold
Context	perform router *string* pim mc-ecmp-rebalance threshold *number*
Tree	threshold
Description	This command configures a threshold level to force a rebalance of all multicast streams with a priority of less than or equal to the specified value. Selecting the highest value forces the rebalance of all multicast streams.
Range	1 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

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show

Synopsis	Enter the **show** context
Context	perform router *string* pim show
Tree	show
Introduced	25.3.R2
Platforms	SAR Gen 2

iom-failures

Synopsis	Display IOM failures
Context	perform router *string* pim show iom-failures
Tree	iom-failures
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display IOM failure details
Context	perform router *string* pim show iom-failures detail *boolean*
Tree	detail
Introduced	25.3.R2
Platforms	SAR Gen 2

service

Synopsis	Enter the **service** context
Context	perform service
Tree	service
Introduced	25.10.R1
Platforms	SAR Gen 2

cpipe [service-name] *reference*

Synopsis	Enter the **cpipe** list instance

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Context	perform service cpipe *reference*
Tree	cpipe
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**service-name**] *reference*

Synopsis	Name of Cpipe service to perform actions on
Context	perform service cpipe *reference*
Tree	cpipe
Reference	**state service cpipe** *service-name*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

sap [sap-id] *reference*

Synopsis	Enter the **sap** list instance
Context	perform service cpipe *reference* sap *reference*
Tree	sap
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**sap-id**] *reference*

Synopsis	SAP ID
Context	perform service cpipe *reference* sap *reference*
Tree	sap
Reference	**state service cpipe** *service-name* **sap** *sap*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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cem

Synopsis	Enter the **cem** context
Context	perform service cpipe *reference* sap *reference* cem
Tree	cem
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

asym-delay-adjust

Synopsis	Perform asym-delay-adjustment action
Context	perform service cpipe *reference* sap *reference* cem asym-delay-adjust
Tree	asym-delay-adjust
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ies [service-name] *reference*

Synopsis	Enter the **ies** list instance
Context	perform service ies *reference*
Tree	ies
Introduced	25.10.R1
Platforms	SAR Gen 2

[**service-name**] *reference*

Synopsis	IES service to perform actions on
Context	perform service ies *reference*
Tree	ies
Reference	**state service ies** *service-name*
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

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ip-transport [ipt-id] *reference*

Synopsis	Enter the **ip-transport** list instance
Context	perform service ies *reference* ip-transport *reference*
Tree	ip-transport
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ipt-id**] *reference*

Synopsis	The id of the ip-transport to perform actions on
Context	perform service ies *reference* ip-transport *reference*
Tree	ip-transport
Reference	**state service ies** *service-name* **ip-transport** *port*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-host [remote-host-id] *reference*

Synopsis	Enter the **remote-host** list instance
Context	perform service ies *reference* ip-transport *reference* remote-host *reference*
Tree	remote-host
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**remote-host-id**] *reference*

Synopsis	The id of the remote-host to perform actions on
Context	perform service ies *reference* ip-transport *reference* remote-host *reference*
Tree	remote-host
Reference	**state service ies** *service-name* **ip-transport** *port* **remote-host** *number*
Notes	This element is part of a list key.
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

check-tcp

Synopsis	Initiate a check TCP connection test.
Context	perform service ies *reference* ip-transport *reference* remote-host *reference* check-tcp
Tree	check-tcp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

vprn [service-name] *reference*

Synopsis	Enter the **vprn** list instance
Context	perform service vprn *reference*
Tree	vprn
Introduced	25.10.R1
Platforms	SAR Gen 2

[**service-name**] *reference*

Synopsis	VPRN service to perform actions on
Context	perform service vprn *reference*
Tree	vprn
Reference	**state service vprn** *service-name*
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

ip-transport [ipt-id] *reference*

Synopsis	Enter the **ip-transport** list instance
Context	perform service vprn *reference* ip-transport *reference*
Tree	ip-transport
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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[**ipt-id**] *reference*

Synopsis	The id of the ip-transport to perform actions on
Context	perform service vprn *reference* ip-transport *reference*
Tree	ip-transport
Reference	**state service vprn** *service-name* **ip-transport** *port*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-host [remote-host-id] *reference*

Synopsis	Enter the **remote-host** list instance
Context	perform service vprn *reference* ip-transport *reference* remote-host *reference*
Tree	remote-host
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**remote-host-id**] *reference*

Synopsis	The id of the remote-host to perform actions on
Context	perform service vprn *reference* ip-transport *reference* remote-host *reference*
Tree	remote-host
Reference	**state service vprn** *service-name* **ip-transport** *port* **remote-host** *number*
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

check-tcp

Synopsis	Initiate a check TCP connection test.
Context	perform service vprn *reference* ip-transport *reference* remote-host *reference* check-tcp
Tree	check-tcp
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

system

Synopsis	Enter the **system** context
Context	perform system
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc

Synopsis	Enter the **grpc** context
Context	perform system grpc
Tree	grpc
Introduced	26.7.R1
Platforms	SAR Gen 2

custom-proto [name] *reference*

Synopsis	Enter the **custom-proto** list instance
Context	perform system grpc custom-proto *reference*
Tree	custom-proto
Introduced	26.7.R1
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Customized proto name
Context	perform system grpc custom-proto *reference*
Tree	custom-proto
Reference	**state system grpc custom-proto** *named-item*
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

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reload

Synopsis	Reload customized proto file
Context	perform system grpc custom-proto *reference* reload
Tree	reload
Introduced	26.7.R1
Platforms	SAR Gen 2

script-control

Synopsis	Enter the **script-control** context
Context	perform system script-control
Tree	script-control
Introduced	25.3.R2
Platforms	SAR Gen 2

script-policy

Synopsis	Enter the **script-policy** context
Context	perform system script-control script-policy
Tree	script-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

stop

Synopsis	Stop the execution of scripts
Context	perform system script-control script-policy stop
Tree	stop
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Stop script execution for all script policies

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Context	perform system script-control script-policy stop all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or (**owner** and **policy-name**).
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *reference*

Synopsis	Stop script execution for a specific owner
Context	perform system script-control script-policy stop owner *reference*
Tree	owner
Default	TiMOS CLI
Reference	**state system script-control script-policy** *named-item* **owner** *named-item*
Notes	The following elements are part of a mandatory choice: **all** or (**owner** and **policy-name**).
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Stop script execution for a specific policy
Context	perform system script-control script-policy stop policy-name *reference*
Tree	policy-name
Reference	**state system script-control script-policy** *named-item* **owner** *named-item*
Notes	The following elements are part of a mandatory choice: **all** or (**owner** and **policy-name**).
Introduced	25.3.R2
Platforms	SAR Gen 2

security

Synopsis	Enter the **security** context
Context	perform system security
Tree	security
Introduced	25.3.R2
Platforms	SAR Gen 2

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secure-boot

Synopsis	Enter the **secure-boot** context
Context	perform system security secure-boot
Tree	secure-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

show

Synopsis	Enter the **show** context
Context	perform system security secure-boot show
Tree	show
Introduced	25.3.R2
Platforms	SAR Gen 2

uefi-variables

Synopsis	Display secure-boot UEFI variables
Context	perform system security secure-boot show uefi-variables
Tree	uefi-variables
Introduced	25.3.R2
Platforms	SAR Gen 2

card *reference*

Synopsis	CPM slot where UEFI variables are returned
Context	perform system security secure-boot show uefi-variables card *reference*
Tree	card
Reference	**state cpm** *cpm-card-slot*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ssh

Synopsis	Enter the **ssh** context
Context	perform system ssh
Tree	ssh
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-keypair

Synopsis	Generate SSH authentication key pair
Context	perform system ssh generate-keypair
Tree	generate-keypair
Introduced	25.3.R2
Platforms	SAR Gen 2

ecdsa-curve *keyword*

Synopsis	Elliptic curve of the ECDSA key to be generated
Context	perform system ssh generate-keypair ecdsa-curve *keyword*
Tree	ecdsa-curve
Options	secp256r1, secp384r1, secp521r1
Default	secp256r1
Notes	The following elements are part of a mandatory choice: **ecdsa-curve**, **ed25519**, or **rsa-key-size**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ed25519

Synopsis	Generate an ed25519 key
Context	perform system ssh generate-keypair ed25519
Tree	ed25519
Notes	The following elements are part of a mandatory choice: **ecdsa-curve**, **ed25519**, or **rsa-key-size**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

rsa-key-size *number*

Synopsis	Length in bits of the RSA key to be generated
Context	perform system ssh generate-keypair rsa-key-size *number*
Tree	rsa-key-size
Range	2048 to 4096
Default	3072
Notes	The following elements are part of a mandatory choice: **ecdsa-curve**, **ed25519**, or **rsa-key-size**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**save-path**] *cflash-url*

Synopsis	Path to save the result key file
Context	perform system ssh generate-keypair [save-path] *cflash-url*
Tree	[save-path]
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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2.7 reset commands

The **reset** commands are YANG-modeled versions of the **clear** commands and are available in MD-CLI and NETCONF interfaces. The **reset** commands are primarily used to:

- set statistics in a specific area back to a value of zero
- reset specific hardware assemblies, for example, cards
- delete temporary operational state data, for example, contents of a log in memory

```
reset
   – card reference
      – fp reference
         – distributed-cpu-protection
            – information
         – forward-engine-drop-reason
            – statistics
         – ingress
            – per-egress-fp-statistics
            – queue-group
               – statistics
                  – instance number
                  – mode keyword
                  – queue-group-name string
      – reinitialize
         – hard-reset-unsupported-mdas
         – soft
   – filter
      – ip-exception
         – direction keyword
         – entry reference
         – [filter-name] reference
      – ip-filter
         – direction keyword
         – entry reference
         – [filter-name] reference
      – ipv6-exception
         – direction keyword
         – entry reference
         – [filter-name] reference
      – ipv6-filter
         – direction keyword
         – entry reference
         – [filter-name] reference
      – log
         – [log-id] reference
      – policer reference
         – instance
            – all
               – direction keyword
            – filter
               – ip
                  – direction keyword
                  – [name] reference
               – ipv6
                  – direction keyword
                  – [name] reference
            – system
               – direction keyword
   – lag reference
      – aggregate-queue-statistics
```


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reset lag bfd-session

```
      - bfd-session
         - port
            - family keyword
            - [lag-port] reference
      - lacp-statistics
      - statistics
   - log
      - event-handling
         - handlers
            - all
            - handler
               - [name] reference
         - information
      - log-events
         - repeating-events
            - all
      - log-id
         - [name] reference
   - mda
      - card-slot reference
         - mda-slot reference
            - ipsec-statistics
            - reinitialize
   - router string
      - arp
         - address
            - ipv4-address ipv4-address
         - all
         - interface
            - interface-name interface-name
      - bfd
         - session
            - lsp-ldp
               - head
                  - session-key
                     - prefix (ipv4-prefix | ipv6-prefix)
                     - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
               - tail
                  - session-key
                     - dst-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                     - prefix (ipv4-prefix | ipv6-prefix)
            - lsp-rsvp
               - head
                  - rsvp-session-name
                     - rsvp-session-name string-not-all-spaces
                  - session-key
                     - dst-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                     - lsp-id number
                     - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                     - tunnel-id number
               - tail
                  - rsvp-session-name
                     - rsvp-session-name string-not-all-spaces
                     - sender-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - session-key
                     - dst-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                     - lsp-id number
                     - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                     - tunnel-id number
            - mpls-tp
               - lsp-id
                  - lsp-name string-not-all-spaces
                  - path keyword
            - point-to-multipoint
```


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```
            - p2mp-interface-name
               - [p2mp-interface-name] string
         - point-to-point
            - session-key
               - dst (ipv4-address-no-zone | ipv6-address-no-zone)
               - src (ipv4-address-no-zone | ipv6-address-no-zone)
         - seamless-lsp-path
            - all
            - session-key
               - lsp-index number
               - path-lspid number
               - prefix (ipv4-prefix | ipv6-prefix)
               - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
         - seamless-sr-policy
            - all
            - session-key
               - lsp-index number
               - path-lspid number
               - prefix (ipv4-prefix | ipv6-prefix)
               - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
      - statistics
         - lsp-ldp
            - head
               - session-key
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
            - tail
               - session-key
                  - dst-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - prefix (ipv4-prefix | ipv6-prefix)
         - lsp-rsvp
            - head
               - rsvp-session-name
                  - rsvp-session-name string-not-all-spaces
               - session-key
                  - dst-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - lsp-id number
                  - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - tunnel-id number
            - tail
               - rsvp-session-name
                  - rsvp-session-name string-not-all-spaces
                  - sender-ip (ipv4-address-no-zone | ipv6-address-no-zone)
               - session-key
                  - dst-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - lsp-id number
                  - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - tunnel-id number
         - mpls-tp
            - lsp-id
               - lsp-name string-not-all-spaces
               - path keyword
         - point-to-multipoint
            - p2mp-interface-name
               - [p2mp-interface-name] string
         - point-to-point
            - session-key
               - dst (ipv4-address-no-zone | ipv6-address-no-zone)
               - src (ipv4-address-no-zone | ipv6-address-no-zone)
         - seamless-lsp-path
            - all
            - session-key
               - lsp-index number
               - path-lspid number
```


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reset router bfd statistics seamless-lsp-path session-key prefix

```
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
            - seamless-sr-policy
               - all
               - session-key
                  - lsp-index number
                  - path-lspid number
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - src-ip (ipv4-address-no-zone | ipv6-address-no-zone)
      - bgp
         - family keyword
            - traffic-statistics
               - direction keyword
         - group reference
            - damping
            - flap-statistics
         - neighbor (ipv4-address-with-zone | ipv6-address-with-zone | keyword)
            - damping
            - end-of-rib
            - flap-statistics
            - hard
            - soft
            - soft-inbound
            - soft-route-refresh
               - family keyword
            - statistics
         - neighbor-as number
            - end-of-rib
            - hard
            - soft
            - soft-inbound
            - soft-route-refresh
               - family keyword
            - statistics
         - prefix (ipv4-prefix | ipv6-prefix)
            - damping
               - neighbor reference
            - flap-statistics
               - neighbor reference
            - traffic-statistics
               - direction keyword
         - protocol
         - traffic-statistics
            - direction keyword
      - bier
         - database
            - sub-domain
               - bsl number
               - sub-domain-id number
         - statistics
      - dhcp-server
         - dhcpv4 named-item
            - declined-addresses
               - address
                  - [address] ipv4-address
                  - mask number
               - pool
                  - [pool] named-item
            - failover-pool-statistics
               - all
               - pool
                  - [pool] named-item
            - leases
               - address
```


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reset router dhcp-server dhcpv4 leases address [address]

```
                  - [address] (ipv4-address-no-zone | ipv6-address-no-zone)
                  - state keyword
               - all
                  - state keyword
               - prefix
                  - [prefix] ipv4-unicast-prefix
                  - state keyword
            - pool-extended-statistics
               - all
               - pool
                  - [pool] named-item
            - statistics
            - sticky-leases
               - host-name
                  - [host-name] named-item
               - host-name-prefix
                  - [host-name-prefix] named-item
            - subnet-extended-statistics
               - pool
                  - [pool] named-item
               - prefix
                  - [prefix] ipv4-unicast-prefix
         - dhcpv6 named-item
            - failover-pool-statistics
               - all
               - pool
                  - [pool] named-item
            - leases
               - address
                  - [address] (ipv4-address-no-zone | ipv6-address-no-zone)
                  - state keyword
                  - type keyword
               - all
                  - state keyword
                  - type keyword
               - prefix
                  - [prefix] ipv6-prefix
                  - state keyword
                  - type keyword
            - pool-extended-statistics
               - all
               - pool
                  - [pool] named-item
            - pool-threshold-statistics
               - all
               - pool
                  - [pool] named-item
            - prefix-extended-statistics
               - pool
                  - [pool] named-item
               - prefix
                  - [prefix] ipv6-prefix
            - prefix-threshold-statistics
               - pool
                  - [pool] named-item
               - prefix
                  - [prefix] ipv6-prefix
            - statistics
      - forwarding-table
         - all
         - slot
            - slot-number reference
      - grt-lookup
      - icmp
```


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reset router icmp all

```
        - all
        - global
        - interface
           - interface-name interface-name
     - icmp-redirect-route
        - address
           - ipv4-address ipv4-address
        - all
     - icmp6
        - all
        - global
        - interface
           - interface-name interface-name
     - icmp6-redirect-route
        - address
           - ipv6-address ipv6-address
        - all
     - igmp
        - database
           - all
              - group ipv4-multicast-address
              - source ipv4-unicast-address
           - interface
              - group ipv4-multicast-address
              - interface-name interface-name
              - source ipv4-unicast-address
        - statistics
           - all
           - interface
              - interface-name interface-name
        - version
           - all
           - interface
              - interface-name interface-name
     - interface interface-name
        - hold-time
        - mac
           - address
              - [mac-address] mac-address
           - all
        - statistics
        - urpf-statistics
     - isis reference
        - adjacency
           - all-adjacencies
           - system-id
              - [system-id] system-id
        - database
           - all-databases
           - system-id
              - [system-id] system-id
        - export
        - overload
           - [overload-type] keyword
        - sid-egress-stats
           - adj
              - all
              - interface
                 - [interface-name] string
           - adj-set
              - all
              - id
                 - [id] reference
           - all
```


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reset router isis sid-egress-stats node

```
            - node
               - all
               - prefix
                  - [ip-prefix-prefix-length] (ipv4-address-no-zone | ipv6-address-no-zone |
ipv4-prefix | ipv6-prefix)
         - sid-ingress-stats
            - adj
               - all
               - interface
                  - [interface-name] string
            - adj-set
               - all
               - id
                  - [id] reference
            - all
            - node
               - all
               - prefix
                  - [ip-prefix-prefix-length] (ipv4-address-no-zone | ipv6-address-no-zone |
ipv4-prefix | ipv6-prefix)
         - spf-log
         - statistics
      - ldp
         - fec-egress-statistics
            - [ip-prefix] (ipv4-prefix | ipv6-prefix)
         - instance
            - [address-family] keyword
         - interface
            - [interface-name] reference
            - ipv4
            - ipv6
            - statistics
         - peer
            - [ip-address] (ipv4-address-no-zone | ipv6-address-no-zone)
            - statistics
         - resource-failures
         - session
            - fec-type keyword
            - overload
            - [peer-lsr-id] reference
            - statistics
            - sub-type keyword
         - statistics
         - targeted-auto-rx
            - hold-time number
      - mld
         - database
            - all
               - group ipv6-multicast-address
               - source ipv6-unicast-address
            - interface
               - group ipv6-multicast-address
               - interface-name interface-name
               - source ipv6-unicast-address
         - statistics
            - all
            - interface
               - interface-name interface-name
         - version
            - all
            - interface
               - interface-name interface-name
      - msdp
         - cache
```


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```
            - group-address ipv4-multicast-address
            - origin-rp-address ipv4-unicast-address
            - peer-address ipv4-unicast-address
            - source-address ipv4-unicast-address
         - statistics
            - peer-address ipv4-unicast-address
      - neighbor
         - address
            - ipv6-address (ipv4-address-with-zone | ipv6-address-with-zone)
         - all
         - interface
            - interface-name interface-name
      - ospf number
         - database
            - purge
         - export
         - neighbor
            - interface-name string
            - router-id ipv4-address
         - overload
            - [overload-type] keyword
         - sid-egress-stats
            - adj
               - all
               - interface
                  - [interface-name] reference
            - adj-set
               - all
               - id
                  - [id] reference
            - all
            - node
               - all
               - prefix
                  - [prefix] (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix |
ipv6-prefix)
         - sid-ingress-stats
            - adj
               - all
               - interface
                  - [interface-name] reference
            - adj-set
               - all
               - id
                  - [id] reference
            - all
            - node
               - all
               - prefix
                  - [prefix] (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix |
ipv6-prefix)
         - statistics
      - ospf3 number
         - database
            - purge
         - export
         - neighbor
            - interface-name string
            - router-id ipv4-address
         - overload
            - [overload-type] keyword
         - sid-egress-stats
            - adj
               - all
```


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reset router ospf3 sid-egress-stats adj interface

```
                - interface
                   - [interface-name] reference
             - all
             - node
                - all
                - prefix
                   - [prefix] (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix |
ipv6-prefix)
          - sid-ingress-stats
             - adj
                - all
                - interface
                   - [interface-name] reference
             - all
             - node
                - all
                - prefix
                   - [prefix] (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix |
ipv6-prefix)
          - statistics
       - pim
          - database
             - all
                - group (ipv4-address-no-zone | ipv6-address-no-zone)
                - ipv4
                - ipv6
                - source (ipv4-address-no-zone | ipv6-address-no-zone)
             - interface
                - group (ipv4-address-no-zone | ipv6-address-no-zone)
                - interface-name interface-name
                - ipv4
                - ipv6
                - source (ipv4-address-no-zone | ipv6-address-no-zone)
          - neighbor
             - all
                - address (ipv4-address-no-zone | ipv6-address-no-zone)
                - ipv4
                - ipv6
             - interface
                - address (ipv4-address-no-zone | ipv6-address-no-zone)
                - interface-name interface-name
                - ipv4
                - ipv6
          - s-pmsi
             - all
             - md
                - group ipv4-multicast-address
                - source ipv4-unicast-address
             - vprn
                - group (ipv4-address-no-zone | ipv6-address-no-zone)
                - md-group ipv4-multicast-address
                - md-source ipv4-unicast-address
                - source (ipv4-address-no-zone | ipv6-address-no-zone)
          - statistics
             - all
                - group (ipv4-address-no-zone | ipv6-address-no-zone)
                - ipv4
                - ipv6
                - source (ipv4-address-no-zone | ipv6-address-no-zone)
             - interface
                - group (ipv4-address-no-zone | ipv6-address-no-zone)
                - interface-name interface-name
                - ipv4
                - ipv6
```


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```
            - source (ipv4-address-no-zone | ipv6-address-no-zone)
      - vrrp
         - instances
            - interface interface-name
               - all-vrid
               - ipv4
                  - vrid
                     - virtual-router-id number
               - ipv6
                  - vrid
                     - virtual-router-id number
         - statistics
            - all-statistics
            - interface interface-name
               - all-vrid
               - ipv4
                  - vrid
                     - virtual-router-id number
               - ipv6
                  - vrid
                     - virtual-router-id number
   - saa
      - owner reference test reference
         - statistics
   - service
      - statistics
         - name service-name
            - counters
            - l2pt
            - mesh-sdp sdp-bind-id
               - all
               - counters
               - stp
            - pip
            - spoke-sdp sdp-bind-id
               - all
               - counters
               - l2pt
               - stp
            - stp
         - sap sap
            - all
            - cem
            - counters
            - l2pt
            - stp
         - sdp reference
            - keep-alive
      - vpls reference
         - evpn
            - mac-duplication
               - all
               - duplicate-mac
                  - [mac-address] reference
         - fdb
            - all
            - mac
               - [mac-address] mac-unicast-address-no-zero
            - mesh-sdp
               - [sdp-bind-id] reference
            - sap
               - [sap-id] reference
            - spoke-sdp
               - [sdp-bind-id] reference
```


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reset service vpls proxy-arp

```
        - proxy-arp
          - duplicate
            - [ip-address] ipv4-address
          - dynamic
            - [ip-address] ipv4-address
        - proxy-nd
          - duplicate
            - [ipv6-address] ipv6-address
          - dynamic
            - [ipv6-address] ipv6-address
  - system
    - management-interface
      - netconf
        - call-home
          - all-client
            - statistics
          - netconf-client reference
            - statistics
        - listen
          - statistics
    - ntp
      - statistics
    - ptp
      - clock-recovery
    - reboot-required
    - script-control
      - script-policy
        - completed
          - all
          - policy
            - owner reference
            - [policy-name] reference
    - security
      - management-access-filter
        - ip-filter
          - entry reference
        - ipv6-filter
          - entry reference
        - mac-filter
          - entry reference
```


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2.7.1 reset command descriptions

reset

Synopsis	Clear statistics or reset operational state
Context	reset
Tree	reset
Description	Commands in this context are used to clear specific statistics, reset specific hardware assemblies (for example, cards), and delete temporary operational state data (for example, contents of a log in memory).
Introduced	25.3.R2
Platforms	SAR Gen 2

card [slot-number] *reference*

Synopsis	Enter the **card** list instance
Context	reset card *reference*
Tree	card
Description	Commands in this context perform reset operations on a specific card.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**slot-number**] *reference*

Synopsis	Slot number
Context	reset card *reference*
Tree	card
Reference	**state card** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fp [fp-number] *reference*

Synopsis	Enter the **fp** list instance

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Context	reset card *reference* fp *reference*
Tree	fp
Description	Commands in this context display information for the specified forwarding plane (FP).
Introduced	25.3.R2
Platforms	SAR Gen 2

[**fp-number**] *reference*

Synopsis	FP number
Context	reset card *reference* fp *reference*
Tree	fp
Reference	**state card** *number* **fp** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

distributed-cpu-protection

Synopsis	Enter the **distributed-cpu-protection** context
Context	reset card *reference* fp *reference* distributed-cpu-protection
Tree	distributed-cpu-protection
Description	Commands in this context reset the distributed CPU protection information.
Introduced	25.3.R2
Platforms	SAR Gen 2

information

Synopsis	Reset distributed CPU protection information
Context	reset card *reference* fp *reference* distributed-cpu-protection information
Tree	information
Introduced	25.3.R2
Platforms	SAR Gen 2

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forward-engine-drop-reason

Synopsis	Enter the **forward-engine-drop-reason** context
Context	reset card *reference* fp *reference* forward-engine-drop-reason
Tree	forward-engine-drop-reason
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset forwarding engine drop reason statistics
Context	reset card *reference* fp *reference* forward-engine-drop-reason statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	reset card *reference* fp *reference* ingress
Tree	ingress
Description	Commands in this context reset the ingress information.
Introduced	25.3.R2
Platforms	SAR Gen 2

per-egress-fp-statistics

Synopsis	Reset per egress FP statistics
Context	reset card *reference* fp *reference* ingress per-egress-fp-statistics
Tree	per-egress-fp-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-group

Synopsis	Enter the **queue-group** context
Context	reset card *reference* fp *reference* ingress queue-group
Tree	queue-group
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset the queue group statistics
Context	reset card *reference* fp *reference* ingress queue-group statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Queue group instance ID
Context	reset card *reference* fp *reference* ingress queue-group statistics instance *number*
Tree	instance
Max. range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Queue group statistics mode
Context	reset card *reference* fp *reference* ingress queue-group statistics mode *keyword*
Tree	mode
Options	access, network
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-group-name *string*

Synopsis	Queue group name
Context	reset card *reference* fp *reference* ingress queue-group statistics queue-group-name *string*
Tree	queue-group-name
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

reinitialize

Synopsis	Reset the specified card
Context	reset card *reference* reinitialize
Tree	reinitialize
Introduced	25.3.R2
Platforms	SAR Gen 2

hard-reset-unsupported-mdas

Synopsis	Perform a hard reset on MDAs incapable of soft reset
Context	reset card *reference* reinitialize hard-reset-unsupported-mdas
Tree	hard-reset-unsupported-mdas
Description	This command allows a soft reset operation when some of the MDAs cannot perform a soft reset. A soft reset is performed on MDAs that support a soft reset, and a hard reset is performed on MDAs that do not support soft resets.
Introduced	25.3.R2
Platforms	SAR Gen 2

soft

Synopsis	Perform a soft reset on the card
Context	reset card *reference* reinitialize soft
Tree	soft
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter

Synopsis	Enter the **filter** context
Context	reset filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-exception

Synopsis	Reset operation on the specified IP exception filter
Context	reset filter ip-exception
Tree	ip-exception
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Statistics direction for IP exception filter entries
Context	reset filter ip-exception direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the filter
Context	reset filter ip-exception entry *reference*
Tree	entry
Reference	**state filter ip-exception** *filter-name* **entry** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**filter-name**] *reference*

Synopsis	IP exception filter name
Context	reset filter ip-exception [filter-name] *reference*
Tree	[filter-name]
Reference	**state filter ip-exception** *filter-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-filter

Synopsis	Reset operation on the specified IP filter
Context	reset filter ip-filter
Tree	ip-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Statistics direction for IP filter entries
Context	reset filter ip-filter direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the filter
Context	reset filter ip-filter entry *reference*
Tree	entry
Reference	**state filter ip-filter** *filter-name* **entry** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**filter-name**] *reference*

Synopsis	IP filter name
Context	reset filter ip-filter [filter-name] *reference*
Tree	[filter-name]
Reference	**state filter ip-filter** *filter-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-exception

Synopsis	Reset operation on the specified IPv6 exception filter
Context	reset filter ipv6-exception
Tree	ipv6-exception
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Statistics direction for IPv6 exception filter entries
Context	reset filter ipv6-exception direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the filter
Context	reset filter ipv6-exception entry *reference*
Tree	entry
Reference	**state filter ipv6-exception** *filter-name* **entry** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**filter-name**] *reference*

Synopsis	IPv6 exception filter name
Context	reset filter ipv6-exception [filter-name] *reference*
Tree	[filter-name]
Reference	**state filter ipv6-exception** *filter-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-filter

Synopsis	Reset operation on the specified IPv6 filter
Context	reset filter ipv6-filter
Tree	ipv6-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Statistics direction of IPv6 filter entries
Context	reset filter ipv6-filter direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the IPv6 filter
Context	reset filter ipv6-filter entry *reference*
Tree	entry
Reference	**state filter ipv6-filter** *filter-name* **entry** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**filter-name**] *reference*

Synopsis	IPv6 exception filter name
Context	reset filter ipv6-filter [filter-name] *reference*
Tree	[filter-name]
Reference	**state filter ipv6-filter** *filter-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

log

Synopsis	Reset the specified filter log
Context	reset filter log
Tree	log
Description	This command reinitializes or rolls over the specified memory filter log. Memory filter logs are reinitialized and cleared of contents. This command is applicable only to filter logs that are directed to memory destinations. Filter logs with destinations other than memory are not affected by this command.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**log-id**] *reference*

Synopsis	ID of the filter log to reset
Context	reset filter log [log-id] *reference*
Tree	[log-id]
Reference	**state filter log** *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-name] *reference*

Synopsis	Enter the **policer** list instance

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Context	reset filter policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-name**] *reference*

Synopsis	Filter policer name
Context	reset filter policer *reference*
Tree	policer
Reference	**state filter policer** *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

instance

Synopsis	Enter the **instance** context
Context	reset filter policer *reference* instance
Tree	instance
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset counters for all policer instances
Context	reset filter policer *reference* instance all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Filter policer instance statistics counters to be reset
Context	reset filter policer *reference* instance all direction *keyword*

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Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	reset filter policer *reference* instance filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Reset instance statistics counters
Context	reset filter policer *reference* instance filter ip
Tree	ip
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Filter policer instance statistics counters to be reset
Context	reset filter policer *reference* instance filter ip direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Filter policer instance name
Context	reset filter policer *reference* instance filter ip [name] *reference*
Tree	[name]

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Reference	**state filter policer** *named-item* **statistics instance filter ip** *named-item-64-or-empty*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the ipv6 context
Context	reset filter policer *reference* instance filter ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Filter policer instance statistics counters to be reset
Context	reset filter policer *reference* instance filter ipv6 direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Filter policer instance name
Context	reset filter policer *reference* instance filter ipv6 [name] *reference*
Tree	[name]
Reference	**state filter policer** *named-item* **statistics instance filter ipv6** *named-item-64-or-empty*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

system

Synopsis	Enter the system context

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Context	reset filter policer *reference* instance system
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Filter policer instance statistics counters to be reset
Context	reset filter policer *reference* instance system direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

lag [lag-name] *reference*

Synopsis	Enter the **lag** list instance
Context	reset lag *reference*
Tree	lag
Description	Commands in this context configure LAG reset operations.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name, starting with lag-
Context	reset lag *reference*
Tree	lag
Reference	**state lag** *lag-interface*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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aggregate-queue-statistics

Synopsis	Reset LAG aggregate queue statistics
Context	reset lag *reference* aggregate-queue-statistics
Tree	aggregate-queue-statistics
Description	This command clears aggregate queue statistics on a PXC-based LAG.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-session

Synopsis	Enter the **bfd-session** context
Context	reset lag *reference* bfd-session
Tree	bfd-session
Description	Commands in this context reset the LAG BFD session data.
Introduced	25.3.R2
Platforms	SAR Gen 2

port

Synopsis	Port identifier in the LAG
Context	reset lag *reference* bfd-session port
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

family *keyword*

Synopsis	BFD session family type
Context	reset lag *reference* bfd-session port family *keyword*
Tree	family
Options	ipv4, ipv6
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**lag-port**] *reference*

Synopsis	Member port of the LAG
Context	reset lag *reference* bfd-session port [lag-port] *reference*
Tree	[lag-port]
Reference	**state lag** *lag-interface* **port** *reference*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp-statistics

Synopsis	Reset LACP statistics
Context	reset lag *reference* lacp-statistics
Tree	lacp-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset LAG statistics
Context	reset lag *reference* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

log

Synopsis	Enter the **log** context
Context	reset log
Tree	log
Description	Commands in this context provide reset operations for events, logs, and the event handling system (EHS).
Introduced	25.3.R2
Platforms	SAR Gen 2

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event-handling

Synopsis	Enter the **event-handling** context
Context	reset log event-handling
Tree	event-handling
Description	Commands in this context provide reset operations for the EHS.
Introduced	25.3.R2
Platforms	SAR Gen 2

handlers

Synopsis	Enter the **handlers** context
Context	reset log event-handling handlers
Tree	handlers
Description	Commands in this context reset statistics related to EHS handlers.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset statistics for all EHS handlers
Context	reset log event-handling handlers all
Tree	all
Description	This command resets all statistics for all handlers in the **state log event-handling handler** context and in the output of the **show log event-handling handler** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

handler

Synopsis	Reset statistics for a specified EHS handler
Context	reset log event-handling handlers handler
Tree	handler
Description	This command resets all statistics for the specified handler in the **state log event-handling handler** context and in the output of the **show log event-handling handler** command.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Handler name to reset
Context	reset log event-handling handlers handler [name] *reference*
Tree	[name]
Reference	**state log event-handling handler** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

information

Synopsis	Reset general EHS operational data
Context	reset log event-handling information
Tree	information
Description	This command resets all data in the **state log event-handling summary-statistics** context and in the output of the **show log event-handling information** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-events

Synopsis	Enter the **log-events** context
Context	reset log log-events
Tree	log-events
Description	Commands in this context reset the operational state related to log events.
Introduced	25.3.R2
Platforms	SAR Gen 2

repeating-events

Synopsis	Enter the **repeating-events** context

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Context	reset log log-events repeating-events
Tree	repeating-events
Description	Commands in this context reset the operational state related to repeating log events.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset operation for all repeating log events
Context	reset log log-events repeating-events all
Tree	all
Description	This command cancels the repetition of all log events that are currently repeating. All repeating log events stop repeating.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-id

Synopsis	Reset the specified event log
Context	reset log log-id
Tree	log-id
Description	This command reinitializes or rolls over the specified memory or file event log. Memory logs are reinitialized and cleared of contents. File logs are manually rolled over by this command. This command is applicable only to event logs that are directed to file destinations and memory destinations. This command does not affect SNMP, syslog, console, CLI, or session logs.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Name of the event log to reset
Context	reset log log-id [name] *reference*
Tree	[name]
Reference	**state log log-id** *log-name*

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mda

Synopsis	Enter the **mda** context
Context	reset mda
Tree	mda
Description	Commands in this context perform reset operations on an MDA in a specified slot.
Introduced	25.3.R2
Platforms	SAR Gen 2

card-slot [slot-number] *reference*

Synopsis	Enter the **card-slot** list instance
Context	reset mda card-slot *reference*
Tree	card-slot
Introduced	25.3.R2
Platforms	SAR Gen 2

[**slot-number**] *reference*

Synopsis	Slot number
Context	reset mda card-slot *reference*
Tree	card-slot
Reference	**state card** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mda-slot [mda] *reference*

Synopsis	Enter the **mda-slot** list instance
Context	reset mda card-slot *reference* mda-slot *reference*

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Tree	mda-slot
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mda**] *reference*

Synopsis	Card MDA slot
Context	reset mda card-slot *reference* mda-slot *reference*
Tree	mda-slot
Reference	**state card** *number* **mda** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-statistics

Synopsis	Reset MDA IPsec statistics
Context	reset mda card-slot *reference* mda-slot *reference* ipsec-statistics
Tree	ipsec-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

reinitialize

Synopsis	Reset the specified MDA
Context	reset mda card-slot *reference* mda-slot *reference* reinitialize
Tree	reinitialize
Introduced	25.3.R2
Platforms	SAR Gen 2

router [router-instance] *string*

Synopsis	Enter the **router** list instance
Context	reset router *string*
Tree	router

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-instance**] *string*

Synopsis	Router name or VPRN service name
Context	reset router *string*
Tree	router
MD-CLI default	Base
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

arp

Synopsis	Enter the **arp** context
Context	reset router *string* arp
Tree	arp
Description	Commands in this context reset ARP cache entries.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Reset the ARP cache entries for the IPv4 address
Context	reset router *string* arp address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-address *ipv4-address*

Synopsis	IPv4 address
Context	reset router *string* arp address ipv4-address *ipv4-address*

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Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all ARP cache entries
Context	reset router *string* arp all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset ARP cache entries for the interface
Context	reset router *string* arp interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* arp interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	reset router *string* bfd
Tree	bfd

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Description	Commands in this context reset bidirectional forwarding (BFD) sessions and statistics.
Introduced	25.3.R2
Platforms	SAR Gen 2

session

Synopsis	Enter the **session** context
Context	reset router *string* bfd session
Tree	session
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ldp

Synopsis	Enter the **lsp-ldp** context
Context	reset router *string* bfd session lsp-ldp
Tree	lsp-ldp
Introduced	25.3.R2
Platforms	SAR Gen 2

head

Synopsis	Enter the **head** context
Context	reset router *string* bfd session lsp-ldp head
Tree	head
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session lsp-ldp head session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd session lsp-ldp head session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd session lsp-ldp head session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tail

Synopsis	Enter the **tail** context
Context	reset router *string* bfd session lsp-ldp tail
Tree	tail
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session lsp-ldp tail session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

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dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd session lsp-ldp tail session-key dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd session lsp-ldp tail session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-rsvp

Synopsis	Enter the **lsp-rsvp** context
Context	reset router *string* bfd session lsp-rsvp
Tree	lsp-rsvp
Introduced	25.3.R2
Platforms	SAR Gen 2

head

Synopsis	Enter the **head** context
Context	reset router *string* bfd session lsp-rsvp head
Tree	head
Introduced	25.3.R2
Platforms	SAR Gen 2

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rsvp-session-name

Synopsis	Reset information for the RSVP session name
Context	reset router *string* bfd session lsp-rsvp head rsvp-session-name
Tree	rsvp-session-name
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-session-name *string-not-all-spaces*

Synopsis	RSVP session name
Context	reset router *string* bfd session lsp-rsvp head rsvp-session-name rsvp-session-name *string-not-all-spaces*
Tree	rsvp-session-name
String length	1 to 256
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session lsp-rsvp head session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd session lsp-rsvp head session-key dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst-ip
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-id *number*

Synopsis	LSP ID
Context	reset router *string* bfd session lsp-rsvp head session-key lsp-id *number*
Tree	lsp-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd session lsp-rsvp head session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-id *number*

Synopsis	Tunnel ID
Context	reset router *string* bfd session lsp-rsvp head session-key tunnel-id *number*
Tree	tunnel-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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tail

Synopsis	Enter the **tail** context
Context	reset router *string* bfd session lsp-rsvp tail
Tree	tail
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-session-name

Synopsis	Reset information for the RSVP session name
Context	reset router *string* bfd session lsp-rsvp tail rsvp-session-name
Tree	rsvp-session-name
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-session-name *string-not-all-spaces*

Synopsis	RSVP session name
Context	reset router *string* bfd session lsp-rsvp tail rsvp-session-name rsvp-session-name *string-not-all-spaces*
Tree	rsvp-session-name
String length	1 to 256
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sender-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	RSVP session sender IP address
Context	reset router *string* bfd session lsp-rsvp tail rsvp-session-name sender-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	sender-ip
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session lsp-rsvp tail session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd session lsp-rsvp tail session-key dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-id *number*

Synopsis	LSP ID
Context	reset router *string* bfd session lsp-rsvp tail session-key lsp-id *number*
Tree	lsp-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd session lsp-rsvp tail session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

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Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-id *number*

Synopsis	Tunnel ID
Context	reset router *string* bfd session lsp-rsvp tail session-key tunnel-id *number*
Tree	tunnel-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls-tp

Synopsis	Enter the **mpls-tp** context
Context	reset router *string* bfd session mpls-tp
Tree	mpls-tp
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-id

Synopsis	Reset information for the LSP ID
Context	reset router *string* bfd session mpls-tp lsp-id
Tree	lsp-id
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-name *string-not-all-spaces*

Synopsis	LSP name
Context	reset router *string* bfd session mpls-tp lsp-id lsp-name *string-not-all-spaces*

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Tree	lsp-name
String length	1 to 256
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

path *keyword*

Synopsis	Path status
Context	reset router *string* bfd session mpls-tp lsp-id path *keyword*
Tree	path
Options	working, protecting
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

point-to-multipoint

Synopsis	Enter the **point-to-multipoint** context
Context	reset router *string* bfd session point-to-multipoint
Tree	point-to-multipoint
Introduced	25.3.R2
Platforms	SAR Gen 2

p2mp-interface-name

Synopsis	Reset information for the P2MP interface
Context	reset router *string* bfd session point-to-multipoint p2mp-interface-name
Tree	p2mp-interface-name
Introduced	25.3.R2
Platforms	SAR Gen 2

[**p2mp-interface-name**] *string*

Synopsis	P2MP interface name

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Context	reset router *string* bfd session point-to-multipoint p2mp-interface-name [p2mp-interface-name] *string*
Tree	[p2mp-interface-name]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

point-to-point

Synopsis	Enter the **point-to-point** context
Context	reset router *string* bfd session point-to-point
Tree	point-to-point
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session point-to-point session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

dst *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd session point-to-point session-key dst *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address

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Context	reset router *string* bfd session point-to-point session-key src *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

seamless-lsp-path

Synopsis	Enter the **seamless-lsp-path** context
Context	reset router *string* bfd session seamless-lsp-path
Tree	seamless-lsp-path
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all sessions
Context	reset router *string* bfd session seamless-lsp-path all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session seamless-lsp-path session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-index *number*

Synopsis	LSP index
Context	reset router *string* bfd session seamless-lsp-path session-key lsp-index *number*

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Tree	lsp-index
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

path-lspid *number*

Synopsis	LSP path ID
Context	reset router *string* bfd session seamless-lsp-path session-key path-lspid *number*
Tree	path-lspid
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd session seamless-lsp-path session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd session seamless-lsp-path session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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seamless-sr-policy

Synopsis	Enter the **seamless-sr-policy** context
Context	reset router *string* bfd session seamless-sr-policy
Tree	seamless-sr-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all sessions
Context	reset router *string* bfd session seamless-sr-policy all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd session seamless-sr-policy session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-index *number*

Synopsis	LSP index
Context	reset router *string* bfd session seamless-sr-policy session-key lsp-index *number*
Tree	lsp-index
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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path-lspid *number*

Synopsis	LSP path ID
Context	reset router *string* bfd session seamless-sr-policy session-key path-lspid *number*
Tree	path-lspid
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd session seamless-sr-policy session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd session seamless-sr-policy session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Enter the **statistics** context
Context	reset router *string* bfd statistics
Tree	statistics

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Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ldp

Synopsis	Enter the **lsp-ldp** context
Context	reset router *string* bfd statistics lsp-ldp
Tree	lsp-ldp
Introduced	25.3.R2
Platforms	SAR Gen 2

head

Synopsis	Enter the **head** context
Context	reset router *string* bfd statistics lsp-ldp head
Tree	head
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics lsp-ldp head session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd statistics lsp-ldp head session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd statistics lsp-ldp head session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tail

Synopsis	Enter the **tail** context
Context	reset router *string* bfd statistics lsp-ldp tail
Tree	tail
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics lsp-ldp tail session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd statistics lsp-ldp tail session-key dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd statistics lsp-ldp tail session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-rsvp

Synopsis	Enter the **lsp-rsvp** context
Context	reset router *string* bfd statistics lsp-rsvp
Tree	lsp-rsvp
Introduced	25.3.R2
Platforms	SAR Gen 2

head

Synopsis	Enter the **head** context
Context	reset router *string* bfd statistics lsp-rsvp head
Tree	head
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-session-name

Synopsis	Reset information for the RSVP session name
Context	reset router *string* bfd statistics lsp-rsvp head rsvp-session-name
Tree	rsvp-session-name
Introduced	25.3.R2
Platforms	SAR Gen 2

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rsvp-session-name *string-not-all-spaces*

Synopsis	RSVP session name
Context	reset router *string* bfd statistics lsp-rsvp head rsvp-session-name rsvp-session-name *string-not-all-spaces*
Tree	rsvp-session-name
String length	1 to 256
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics lsp-rsvp head session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd statistics lsp-rsvp head session-key dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-id *number*

Synopsis	LSP ID
Context	reset router *string* bfd statistics lsp-rsvp head session-key lsp-id *number*
Tree	lsp-id

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Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd statistics lsp-rsvp head session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-id *number*

Synopsis	Tunnel ID
Context	reset router *string* bfd statistics lsp-rsvp head session-key tunnel-id *number*
Tree	tunnel-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tail

Synopsis	Enter the **tail** context
Context	reset router *string* bfd statistics lsp-rsvp tail
Tree	tail
Introduced	25.3.R2
Platforms	SAR Gen 2

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rsvp-session-name

Synopsis	Reset information for the RSVP session name
Context	reset router *string* bfd statistics lsp-rsvp tail rsvp-session-name
Tree	rsvp-session-name
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-session-name *string-not-all-spaces*

Synopsis	RSVP session name
Context	reset router *string* bfd statistics lsp-rsvp tail rsvp-session-name rsvp-session-name *string-not-all-spaces*
Tree	rsvp-session-name
String length	1 to 256
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sender-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	RSVP session sender IP address
Context	reset router *string* bfd statistics lsp-rsvp tail rsvp-session-name sender-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	sender-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics lsp-rsvp tail session-key
Tree	session-key

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Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd statistics lsp-rsvp tail session-key dst-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-id *number*

Synopsis	LSP ID
Context	reset router *string* bfd statistics lsp-rsvp tail session-key lsp-id *number*
Tree	lsp-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd statistics lsp-rsvp tail session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-id *number*

Synopsis	Tunnel ID

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Context	reset router *string* bfd statistics lsp-rsvp tail session-key tunnel-id *number*
Tree	tunnel-id
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls-tp

Synopsis	Enter the **mpls-tp** context
Context	reset router *string* bfd statistics mpls-tp
Tree	mpls-tp
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-id

Synopsis	Reset information for the LSP ID
Context	reset router *string* bfd statistics mpls-tp lsp-id
Tree	lsp-id
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-name *string-not-all-spaces*

Synopsis	LSP name
Context	reset router *string* bfd statistics mpls-tp lsp-id lsp-name *string-not-all-spaces*
Tree	lsp-name
String length	1 to 256
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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path *keyword*

Synopsis	Path status
Context	reset router *string* bfd statistics mpls-tp lsp-id path *keyword*
Tree	path
Options	working, protecting
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

point-to-multipoint

Synopsis	Enter the **point-to-multipoint** context
Context	reset router *string* bfd statistics point-to-multipoint
Tree	point-to-multipoint
Introduced	25.3.R2
Platforms	SAR Gen 2

p2mp-interface-name

Synopsis	Reset information for the P2MP interface
Context	reset router *string* bfd statistics point-to-multipoint p2mp-interface-name
Tree	p2mp-interface-name
Introduced	25.3.R2
Platforms	SAR Gen 2

[**p2mp-interface-name**] *string*

Synopsis	P2MP interface name
Context	reset router *string* bfd statistics point-to-multipoint p2mp-interface-name [p2mp-interface-name] *string*
Tree	[p2mp-interface-name]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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point-to-point

Synopsis	Enter the **point-to-point** context
Context	reset router *string* bfd statistics point-to-point
Tree	point-to-point
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics point-to-point session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

dst *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination address
Context	reset router *string* bfd statistics point-to-point session-key dst *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dst
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd statistics point-to-point session-key src *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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seamless-lsp-path

Synopsis	Enter the **seamless-lsp-path** context
Context	reset router *string* bfd statistics seamless-lsp-path
Tree	seamless-lsp-path
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all sessions
Context	reset router *string* bfd statistics seamless-lsp-path all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics seamless-lsp-path session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-index *number*

Synopsis	LSP index
Context	reset router *string* bfd statistics seamless-lsp-path session-key lsp-index *number*
Tree	lsp-index
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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path-lspid *number*

Synopsis	LSP path ID
Context	reset router *string* bfd statistics seamless-lsp-path session-key path-lspid *number*
Tree	path-lspid
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd statistics seamless-lsp-path session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd statistics seamless-lsp-path session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

seamless-sr-policy

Synopsis	Enter the **seamless-sr-policy** context
Context	reset router *string* bfd statistics seamless-sr-policy
Tree	seamless-sr-policy

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Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all sessions
Context	reset router *string* bfd statistics seamless-sr-policy all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

session-key

Synopsis	Reset information for the session key
Context	reset router *string* bfd statistics seamless-sr-policy session-key
Tree	session-key
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-index *number*

Synopsis	LSP index
Context	reset router *string* bfd statistics seamless-sr-policy session-key lsp-index *number*
Tree	lsp-index
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

path-lspid *number*

Synopsis	LSP path ID
Context	reset router *string* bfd statistics seamless-sr-policy session-key path-lspid *number*
Tree	path-lspid
Max. range	0 to 4294967295

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix
Context	reset router *string* bfd statistics seamless-sr-policy session-key prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* bfd statistics seamless-sr-policy session-key src-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	src-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp

Synopsis	Enter the **bgp** context
Context	reset router *string* bgp
Tree	bgp
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	reset router *string* bgp family *keyword*

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Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family for BGP reset actions
Context	reset router *string* bgp family *keyword*
Tree	family
Options	label-ipv4, label-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

traffic-statistics

Synopsis	Reset BGP-LU traffic statistics counters to zero
Context	reset router *string* bgp family *keyword* traffic-statistics
Tree	traffic-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Specifies the direction of the data-path
Context	reset router *string* bgp family *keyword* traffic-statistics direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *reference*

Synopsis	Enter the **group** list instance
Context	reset router *string* bgp group *reference*

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Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	Group name
Context	reset router *string* bgp group *reference*
Tree	group
Reference	**state router** *named-item-64* **bgp group** *named-item-64*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

damping

Synopsis	Reset the route damping information for received routes
Context	reset router *string* bgp group *reference* damping
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

flap-statistics

Synopsis	Reset counter to zero for selected subset of RIB-INs
Context	reset router *string* bgp group *reference* flap-statistics
Tree	flap-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [neighbor-id] *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)*

Synopsis	Enter the **neighbor** list instance
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)*

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Tree	neighbor
Description	Commands in this context reset the specified peers or set of peers. By default, the TCP connection is brought down and the state of the BGP session returns to the idle state.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**neighbor-id**] *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)*

Synopsis	Neighbor ID
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)*
Tree	neighbor
Options	external – Reset all eBGP neighbors all – Reset all BGP neighbors
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

damping

Synopsis	Reset the route damping information for received routes
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* damping
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

end-of-rib

Synopsis	Reset the Routing Information Base (RIB)
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* end-of-rib
Tree	end-of-rib

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Description	When configured, the router immediately deletes stale routes from the neighbor and aborts graceful restart procedures.
Introduced	25.3.R2
Platforms	SAR Gen 2

flap-statistics

Synopsis	Reset counter to zero for selected subset of RIB-INs
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* flap-statistics
Tree	flap-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

hard

Synopsis	Reset BGP neighbors with TCP connection teardown
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* hard
Tree	hard
Introduced	25.3.R2
Platforms	SAR Gen 2

soft

Synopsis	Reevaluate routes against configured export policies
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* soft
Tree	soft
Introduced	25.3.R2
Platforms	SAR Gen 2

soft-inbound

Synopsis	Reevaluate routes against configured import policies
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* soft-inbound

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Tree	soft-inbound
Introduced	25.3.R2
Platforms	SAR Gen 2

soft-route-refresh

Synopsis	Reset a session by sending messages to the peer
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* soft-route-refresh
Tree	soft-route-refresh
Description	When configured, the router sends one or more Route Refresh messages to the peer, but the session remains up. If this command is configured and an address family is not provided, the session remains established, and one Route Refresh message is transmitted to the peer for each address family active on the session. If this command is configured and an address family is also provided, the session remains established and a single Route Refresh message is transmitted to the peer requesting that it resend only its routes belonging to that one address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

family *keyword*

Synopsis	Address family
Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* soft-route-refresh family *keyword*
Tree	family
Description	This command configures the address family encoded in the Route Refresh request sent to the peer.
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4, sr-policy-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset BGP neighbor statistics

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Context	reset router *string* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone | keyword)* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-as [as-number] *number*

Synopsis	Enter the **neighbor-as** list instance
Context	reset router *string* bgp neighbor-as *number*
Tree	neighbor-as
Description	Commands in this context reset all BGP neighbors with the specified peer Autonomous System (AS).
Introduced	25.3.R2
Platforms	SAR Gen 2

[**as-number**] *number*

Synopsis	AS number
Context	reset router *string* bgp neighbor-as *number*
Tree	neighbor-as
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-of-rib

Synopsis	Reset the Routing Information Base (RIB)
Context	reset router *string* bgp neighbor-as *number* end-of-rib
Tree	end-of-rib
Description	When configured, the router immediately deletes stale routes from the neighbor and aborts graceful restart procedures.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hard

Synopsis	Reset BGP neighbors with TCP connection teardown
Context	reset router *string* bgp neighbor-as *number* hard
Tree	hard
Introduced	25.3.R2
Platforms	SAR Gen 2

soft

Synopsis	Reevaluate routes against configured export policies
Context	reset router *string* bgp neighbor-as *number* soft
Tree	soft
Introduced	25.3.R2
Platforms	SAR Gen 2

soft-inbound

Synopsis	Reevaluate routes against configured import policies
Context	reset router *string* bgp neighbor-as *number* soft-inbound
Tree	soft-inbound
Introduced	25.3.R2
Platforms	SAR Gen 2

soft-route-refresh

Synopsis	Reset a session by sending messages to the peer
Context	reset router *string* bgp neighbor-as *number* soft-route-refresh
Tree	soft-route-refresh
Description	When configured, the router sends one or more Route Refresh messages to the peer, but the session remains up. If this command is configured and an address family is not provided, the session remains established, and one Route Refresh message is transmitted to the peer for each address family active on the session. If this command is configured and an address family is also provided, the session remains established and a single Route Refresh message is transmitted to the peer requesting that it resend only its routes belonging to that one address family.

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Introduced	25.3.R2
Platforms	SAR Gen 2

family *keyword*

Synopsis	Address family
Context	reset router *string* bgp neighbor-as *number* soft-route-refresh family *keyword*
Tree	family
Description	This command configures the address family encoded in the Route Refresh request sent to the peer.
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4, sr-policy-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset BGP neighbor statistics
Context	reset router *string* bgp neighbor-as *number* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **prefix** list instance
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix

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Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

damping

Synopsis	Reset RFD route history block for a subset of RIB-INs
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)* damping
Tree	damping
Description	When configured, this command removes the Route Flap Damping (RFD) route history block for the selected subset of RIB-INs when the neighbor IP address is also provided.
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor *reference*

Synopsis	IP address of the BGP neighbor
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)* damping neighbor *reference*
Tree	neighbor
Reference	**state router** *named-item-64* **bgp neighbor** *(ipv4-address-with-zone | ipv6-address-with-zone)*
Introduced	25.3.R2
Platforms	SAR Gen 2

flap-statistics

Synopsis	Resets the route flap statistics
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)* flap-statistics
Tree	flap-statistics
Description	When configured, the router resets the counter (number of flaps) to zero for the selected subset of RIB-INs when the neighbor IP address is also provided.
Introduced	25.3.R2
Platforms	SAR Gen 2

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neighbor *reference*

Synopsis	IP address of the BGP neighbor
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)* flap-statistics neighbor *reference*
Tree	neighbor
Reference	**state router** *named-item-64* **bgp neighbor** *(ipv4-address-with-zone | ipv6-address-with-zone)*
Introduced	25.3.R2
Platforms	SAR Gen 2

traffic-statistics

Synopsis	Reset BGP-LU traffic statistics counters to zero
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)* traffic-statistics
Tree	traffic-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Specifies the direction of the data-path
Context	reset router *string* bgp prefix *(ipv4-prefix | ipv6-prefix)* traffic-statistics direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol

Synopsis	Resets the BGP instance, causing all sessions to restart (return to IDLE)
Context	reset router *string* bgp protocol
Tree	protocol
Introduced	25.3.R2
Platforms	SAR Gen 2

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traffic-statistics

Synopsis	Reset BGP-LU traffic statistics counters to zero
Context	reset router *string* bgp traffic-statistics
Tree	traffic-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Specifies the direction of the data-path
Context	reset router *string* bgp traffic-statistics direction *keyword*
Tree	direction
Options	ingress, egress
Introduced	25.3.R2
Platforms	SAR Gen 2

bier

Synopsis	Enter the **bier** context
Context	reset router *string* bier
Tree	bier
Description	Commands in this context perform reset operations on Bit Index Explicit Replication (BIER) entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

database

Synopsis	Enter the **database** context
Context	reset router *string* bier database
Tree	database
Description	Commands in this context reset the BIER database.
Introduced	25.3.R2
Platforms	SAR Gen 2

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sub-domain

Synopsis	Reset the sub-domain
Context	reset router *string* bier database sub-domain
Tree	sub-domain
Introduced	25.3.R2
Platforms	SAR Gen 2

bsl *number*

Synopsis	Sub-domain BSL
Context	reset router *string* bier database sub-domain bsl *number*
Tree	bsl
Max. range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

sub-domain-id *number*

Synopsis	Sub-domain ID
Context	reset router *string* bier database sub-domain sub-domain-id *number*
Tree	sub-domain-id
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset statistics
Context	reset router *string* bier statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcp-server

Synopsis	Enter the **dhcp-server** context
Context	reset router *string* dhcp-server
Tree	dhcp-server
Description	Commands in this context reset DHCPv4 server entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv4 [server-name] *named-item*

Synopsis	Enter the **dhcpv4** list instance
Context	reset router *string* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**server-name**] *named-item*

Synopsis	Server name
Context	reset router *string* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

declined-addresses

Synopsis	Enter the **declined-addresses** context
Context	reset router *string* dhcp-server dhcpv4 *named-item* declined-addresses
Tree	declined-addresses
Description	Commands in this context make declined DHCPv4 addresses available.
Introduced	25.3.R2

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Platforms	SAR Gen 2

address

Synopsis	Make the specified declined addresses available
Context	reset router *string* dhcp-server dhcpv4 *named-item* declined-addresses address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-address*

Synopsis	IPv4 address
Context	reset router *string* dhcp-server dhcpv4 *named-item* declined-addresses address [address] *ipv4-address*
Tree	[address]
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	IPv4 address mask
Context	reset router *string* dhcp-server dhcpv4 *named-item* declined-addresses address mask *number*
Tree	mask
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Make declined addresses in the pool available
Context	reset router *string* dhcp-server dhcpv4 *named-item* declined-addresses pool

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Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv4 *named-item* declined-addresses pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

failover-pool-statistics

Synopsis	Enter the **failover-pool-statistics** context
Context	reset router *string* dhcp-server dhcpv4 *named-item* failover-pool-statistics
Tree	failover-pool-statistics
Description	Commands in this context reset the per pool failover statistics.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset failover statistics for all pools
Context	reset router *string* dhcp-server dhcpv4 *named-item* failover-pool-statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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pool

Synopsis	Reset failover statistics for the specified pool
Context	reset router *string* dhcp-server dhcpv4 *named-item* failover-pool-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv4 *named-item* failover-pool-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

leases

Synopsis	Enter the **leases** context
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases
Tree	leases
Description	Commands in this context delete leases in the specified DHCPv4 server.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Delete the specified DHCPv4 lease
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases address
Tree	address
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IPv4 address
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases address [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	[address]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	Lease state
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases address state *keyword*
Tree	state
Options	offered, stable, force-renew-pending, remove-pending, held, internal, internal-orphan, internal-offered, internal-held, sticky
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Delete all DHCPv4 leases
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	Lease state
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases all state *keyword*
Tree	state

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Options	offered, stable, force-renew-pending, remove-pending, held, internal, internal-orphan, internal-offered, internal-held, sticky
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Delete all DHCPv4 leases in the specified prefix
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv4-unicast-prefix*

Synopsis	IPv4 prefix
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases prefix [prefix] *ipv4-unicast-prefix*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	Lease state
Context	reset router *string* dhcp-server dhcpv4 *named-item* leases prefix state *keyword*
Tree	state
Options	offered, stable, force-renew-pending, remove-pending, held, internal, internal-orphan, internal-offered, internal-held, sticky
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-extended-statistics

Synopsis	Enter the **pool-extended-statistics** context

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Context	reset router *string* dhcp-server dhcpv4 *named-item* pool-extended-statistics
Tree	pool-extended-statistics
Description	Commands in this context reset the pool extended statistics peak values.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset extended statistics peak values for all pools
Context	reset router *string* dhcp-server dhcpv4 *named-item* pool-extended-statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Reset extended statistics peak values for the pool
Context	reset router *string* dhcp-server dhcpv4 *named-item* pool-extended-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv4 *named-item* pool-extended-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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statistics

Synopsis	Reset DHCPv4 server statistics
Context	reset router *string* dhcp-server dhcpv4 *named-item* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-leases

Synopsis	Enter the **sticky-leases** context
Context	reset router *string* dhcp-server dhcpv4 *named-item* sticky-leases
Tree	sticky-leases
Description	Commands in this context delete sticky leases.
Introduced	25.3.R2
Platforms	SAR Gen 2

host-name

Synopsis	Delete the sticky lease associated with the hostname
Context	reset router *string* dhcp-server dhcpv4 *named-item* sticky-leases host-name
Tree	host-name
Introduced	25.3.R2
Platforms	SAR Gen 2

[**host-name**] *named-item*

Synopsis	Hostname
Context	reset router *string* dhcp-server dhcpv4 *named-item* sticky-leases host-name [host-name] *named-item*
Tree	[host-name]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

host-name-prefix

Synopsis	Delete sticky leases associated with hostnames containing the prefix
Context	reset router *string* dhcp-server dhcpv4 *named-item* sticky-leases host-name-prefix
Tree	host-name-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**host-name-prefix**] *named-item*

Synopsis	Hostname prefix
Context	reset router *string* dhcp-server dhcpv4 *named-item* sticky-leases host-name-prefix [host-name-prefix] *named-item*
Tree	[host-name-prefix]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

subnet-extended-statistics

Synopsis	Enter the **subnet-extended-statistics** context
Context	reset router *string* dhcp-server dhcpv4 *named-item* subnet-extended-statistics
Tree	subnet-extended-statistics
Description	Commands in this context reset the per subnet extended statistics peak values.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Reset extended statistics peak values for all subnets in the pool
Context	reset router *string* dhcp-server dhcpv4 *named-item* subnet-extended-statistics pool

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Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv4 *named-item* subnet-extended-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset extended statistics peak values for the specified prefix
Context	reset router *string* dhcp-server dhcpv4 *named-item* subnet-extended-statistics prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv4-unicast-prefix*

Synopsis	IPv4 prefix
Context	reset router *string* dhcp-server dhcpv4 *named-item* subnet-extended-statistics prefix [prefix] *ipv4-unicast-prefix*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcpv6 [server-name] *named-item*

Synopsis	Enter the **dhcpv6** list instance
Context	reset router *string* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
Description	Commands in this context reset DHCPv6 server entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**server-name**] *named-item*

Synopsis	Server name
Context	reset router *string* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

failover-pool-statistics

Synopsis	Enter the **failover-pool-statistics** context
Context	reset router *string* dhcp-server dhcpv6 *named-item* failover-pool-statistics
Tree	failover-pool-statistics
Description	Commands in this context reset the per pool failover statistics.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset failover statistics for all pools
Context	reset router *string* dhcp-server dhcpv6 *named-item* failover-pool-statistics all
Tree	all
Introduced	25.3.R2

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Platforms	SAR Gen 2

pool

Synopsis	Reset failover statistics for the specified pool
Context	reset router *string* dhcp-server dhcpv6 *named-item* failover-pool-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv6 *named-item* failover-pool-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

leases

Synopsis	Enter the **leases** context
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases
Tree	leases
Description	Commands in this context delete leases in the specified DHCPv6 server.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Delete the specified DHCPv6 lease
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases address

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Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IPv6 address
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases address [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	[address]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	Lease state
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases address state *keyword*
Tree	state
Options	advertised, stable, remove-pending, held, internal, internal-orphan, internal-offered, internal-held
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Lease type
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases address type *keyword*
Tree	type
Options	pd, slaac, wan
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Delete all DHCPv6 leases

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Context	reset router *string* dhcp-server dhcpv6 *named-item* leases all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	Lease state
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases all state *keyword*
Tree	state
Options	advertised, stable, remove-pending, held, internal, internal-orphan, internal-offered, internal-held
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Lease type
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases all type *keyword*
Tree	type
Options	pd, slaac, wan
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Delete all DHCPv6 leases in the specified prefix
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases prefix [prefix] *ipv6-prefix*

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Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	Lease state
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases prefix state *keyword*
Tree	state
Options	advertised, stable, remove-pending, held, internal, internal-orphan, internal-offered, internal-held
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Lease type
Context	reset router *string* dhcp-server dhcpv6 *named-item* leases prefix type *keyword*
Tree	type
Options	pd, slaac, wan
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-extended-statistics

Synopsis	Enter the **pool-extended-statistics** context
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-extended-statistics
Tree	pool-extended-statistics
Description	Commands in this context reset the pool extended statistics extended values.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset extended statistics peak values for all pools
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-extended-statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Reset extended statistics peak values for the specified pool
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-extended-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-extended-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-threshold-statistics

Synopsis	Enter the **pool-threshold-statistics** context
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-threshold-statistics
Tree	pool-threshold-statistics
Description	Commands in this context reset the per pool threshold statistics peak values.
Introduced	25.3.R2

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Platforms	SAR Gen 2

all

Synopsis	Reset threshold statistics peak values for all pools
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-threshold-statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Reset threshold statistics peak values for the pool
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-threshold-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv6 *named-item* pool-threshold-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-extended-statistics

Synopsis	Enter the **prefix-extended-statistics** context
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-extended-statistics
Tree	prefix-extended-statistics

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Description	Commands in this context reset the per prefix extended statistics peak values.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Reset extended statistics peak values for all prefixes in the pool
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-extended-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-extended-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset extended statistics peak values for the prefix
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-extended-statistics prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix

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Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-extended-statistics prefix [prefix] *ipv6-prefix*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-threshold-statistics

Synopsis	Enter the **prefix-threshold-statistics** context
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-threshold-statistics
Tree	prefix-threshold-statistics
Description	Commands in this context reset the per prefix threshold statistics peak values.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Reset threshold statistics peak values for all prefixes in the pool
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-threshold-statistics pool
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool**] *named-item*

Synopsis	Pool name
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-threshold-statistics pool [pool] *named-item*
Tree	[pool]
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix

Synopsis	Reset threshold statistics peak values for the specified prefix
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-threshold-statistics prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix
Context	reset router *string* dhcp-server dhcpv6 *named-item* prefix-threshold-statistics prefix [prefix] *ipv6-prefix*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset DHCPv6 server statistics
Context	reset router *string* dhcp-server dhcpv6 *named-item* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

forwarding-table

Synopsis	Enter the **forwarding-table** context
Context	reset router *string* forwarding-table
Tree	forwarding-table
Description	Commands in this context reset the router forwarding table for the IOM.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset all router forwarding tables
Context	reset router *string* forwarding-table all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

slot

Synopsis	Reset the router forwarding table for the IOM slot
Context	reset router *string* forwarding-table slot
Tree	slot
Introduced	25.3.R2
Platforms	SAR Gen 2

slot-number *reference*

Synopsis	Slot number
Context	reset router *string* forwarding-table slot slot-number *reference*
Tree	slot-number
Reference	**state card** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

grt-lookup

Synopsis	Re-evaluate the route policies for GRT
Context	reset router *string* grt-lookup
Tree	grt-lookup
Introduced	25.3.R2
Platforms	SAR Gen 2

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icmp

Synopsis	Enter the **icmp** context
Context	reset router *string* icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all ICMP router statistics
Context	reset router *string* icmp all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

global

Synopsis	Reset global router statistics
Context	reset router *string* icmp global
Tree	global
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset ICMP statistics for the interface
Context	reset router *string* icmp interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name

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Context	reset router *string* icmp interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-redirect-route

Synopsis	Enter the **icmp-redirect-route** context
Context	reset router *string* icmp-redirect-route
Tree	icmp-redirect-route
Description	Commands in this context remove routes created as a result of ICMP redirects received on the management interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Reset the routes associated with the IP address
Context	reset router *string* icmp-redirect-route address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-address *ipv4-address*

Synopsis	IPv4 address
Context	reset router *string* icmp-redirect-route address ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset all routes
Context	reset router *string* icmp-redirect-route all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context
Context	reset router *string* icmp6
Tree	icmp6
Description	Commands in this context reset ICMPv6 statistics.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all ICMPv6 router statistics
Context	reset router *string* icmp6 all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

global

Synopsis	Reset ICMPv6 global router statistics
Context	reset router *string* icmp6 global
Tree	global
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface

Synopsis	Reset ICMPv6 router statistics of the interface
Context	reset router *string* icmp6 interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* icmp6 interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-redirect-route

Synopsis	Enter the **icmp6-redirect-route** context
Context	reset router *string* icmp6-redirect-route
Tree	icmp6-redirect-route
Description	Commands in this context delete routes created from ICMPv6 redirects received on the management interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Reset routes associated with the IPv6 address
Context	reset router *string* icmp6-redirect-route address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-address *ipv6-address*

Synopsis	IPv6 address
Context	reset router *string* icmp6-redirect-route address ipv6-address *ipv6-address*
Tree	ipv6-address
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all routes
Context	reset router *string* icmp6-redirect-route all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp

Synopsis	Enter the **igmp** context
Context	reset router *string* igmp
Tree	igmp
Description	Commands in this context perform reset operations on IGMP entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

database

Synopsis	Enter the **database** context
Context	reset router *string* igmp database
Tree	database
Description	Commands in this context reset IGMP database statistics on a specified interface or IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset database for all interfaces, groups, and hosts
Context	reset router *string* igmp database all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

group *ipv4-multicast-address*

Synopsis	Group address
Context	reset router *string* igmp database all group *ipv4-multicast-address*
Tree	group
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

source *ipv4-unicast-address*

Synopsis	Source address
Context	reset router *string* igmp database all source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset the database on an interface
Context	reset router *string* igmp database interface
Tree	interface
Introduced	25.3.R2

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Platforms	SAR Gen 2

group *ipv4-multicast-address*

Synopsis	Group address
Context	reset router *string* igmp database interface group *ipv4-multicast-address*
Tree	group
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* igmp database interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

source *ipv4-unicast-address*

Synopsis	Source address
Context	reset router *string* igmp database interface source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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statistics

Synopsis	Enter the **statistics** context
Context	reset router *string* igmp statistics
Tree	statistics
Description	Commands in this context reset IGMP statistics on a specified interface or IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset statistics for all interfaces, groups, and hosts
Context	reset router *string* igmp statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset statistics on an interface
Context	reset router *string* igmp statistics interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* igmp statistics interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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version

Synopsis	Enter the **version** context
Context	reset router *string* igmp version
Tree	version
Description	Commands in this context reset the IGMP version on a specified interface or IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset the version for all interfaces, groups, and hosts
Context	reset router *string* igmp version all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset the version on an interface
Context	reset router *string* igmp version interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* igmp version interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	reset router *string* interface *interface-name*
Tree	interface
Description	Commands in this context reset IP interface statistics.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	reset router *string* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Reset the IP interface activation hold timers
Context	reset router *string* interface *interface-name* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Enter the **mac** context
Context	reset router *string* interface *interface-name* mac
Tree	mac
Introduced	25.3.R2
Platforms	SAR Gen 2

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address

Synopsis	Reset specified MAC address from associated interface
Context	reset router *string* interface *interface-name* mac address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-address**] *mac-address*

Synopsis	MAC address
Context	reset router *string* interface *interface-name* mac address [mac-address] *mac-address*
Tree	[mac-address]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all MAC addresses for the specified interface
Context	reset router *string* interface *interface-name* mac all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset the interface traffic statistics
Context	reset router *string* interface *interface-name* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

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urpf-statistics

Synopsis	Reset the interface uRPF statistics
Context	reset router *string* interface *interface-name* urpf-statistics
Tree	urpf-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

isis [isis-instance] *reference*

Synopsis	Enter the **isis** list instance
Context	reset router *string* isis *reference*
Tree	isis
Description	Commands in this context reset the IS-IS protocol entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

[isis-instance] *reference*

Synopsis	IS-IS instance
Context	reset router *string* isis *reference*
Tree	isis
MD-CLI default	0
Reference	**state router** *named-item-64* **isis** *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency

Synopsis	Enter the **adjacency** context
Context	reset router *string* isis *reference* adjacency
Tree	adjacency
Description	Commands in this context reset the entries from the IS-IS adjacency database.

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Introduced	25.3.R2
Platforms	SAR Gen 2

all-adjacencies

Synopsis	Reset all IS-IS adjacencies
Context	reset router *string* isis *reference* adjacency all-adjacencies
Tree	all-adjacencies
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id

Synopsis	Reset the IS-IS adjacency to a node
Context	reset router *string* isis *reference* adjacency system-id
Tree	system-id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**system-id**] *system-id*

Synopsis	System ID for a specific node
Context	reset router *string* isis *reference* adjacency system-id [system-id] *system-id*
Tree	[system-id]
String length	14
Default	0000.0000.0000
String format	'system-id' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

database

Synopsis	Enter the **database** context
Context	reset router *string* isis *reference* database

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Tree	database
Description	Commands in this context reset the entries from the IS-IS link-state database.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-databases

Synopsis	Reset all IS-IS databases system wide
Context	reset router *string* isis *reference* database all-databases
Tree	all-databases
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id

Synopsis	Reset the IS-IS database for a node
Context	reset router *string* isis *reference* database system-id
Tree	system-id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**system-id**] *system-id*

Synopsis	System ID for a specific node
Context	reset router *string* isis *reference* database system-id [system-id] *system-id*
Tree	[system-id]
String length	14
Default	0000.0000.0000
String format	'system-id' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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export

Synopsis	Reset and re-evaluate IS-IS route policies
Context	reset router *string* isis *reference* export
Tree	export
Description	When configured, the system re-evaluates route policies participating in the export mechanism, either as importers or exporters of routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

overload

Synopsis	Reset the IS-IS overload
Context	reset router *string* isis *reference* overload
Tree	overload
Introduced	25.3.R2
Platforms	SAR Gen 2

[**overload-type**] *keyword*

Synopsis	Overload type
Context	reset router *string* isis *reference* overload [overload-type] *keyword*
Tree	[overload-type]
Options	fib, rtm, prefix-limit
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sid-egress-stats

Synopsis	Enter the **sid-egress-stats** context
Context	reset router *string* isis *reference* sid-egress-stats
Tree	sid-egress-stats
Introduced	25.3.R2
Platforms	SAR Gen 2

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adj

Synopsis	Enter the **adj** context
Context	reset router *string* isis *reference* sid-egress-stats adj
Tree	adj
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all egress SID statistics for all adjacencies
Context	reset router *string* isis *reference* sid-egress-stats adj all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset adjacency SID statistics for an interface
Context	reset router *string* isis *reference* sid-egress-stats adj interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *string*

Synopsis	Interface name
Context	reset router *string* isis *reference* sid-egress-stats adj interface [interface-name] *string*
Tree	[interface-name]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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adj-set

Synopsis	Enter the **adj-set** context
Context	reset router *string* isis *reference* sid-egress-stats adj-set
Tree	adj-set
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset egress SID statistics for all adjacency sets
Context	reset router *string* isis *reference* sid-egress-stats adj-set all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Reset adjacency set ID
Context	reset router *string* isis *reference* sid-egress-stats adj-set id
Tree	id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	Adjacency set ID
Context	reset router *string* isis *reference* sid-egress-stats adj-set id [id] *reference*
Tree	[id]
Reference	**state router** *named-item-64* **isis** *number* **segment-routing adjacency-set** *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset all egress SID statistics
Context	reset router *string* isis *reference* sid-egress-stats all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

node

Synopsis	Enter the **node** context
Context	reset router *string* isis *reference* sid-egress-stats node
Tree	node
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all egress node SID statistics
Context	reset router *string* isis *reference* sid-egress-stats node all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset egress statistics for a node prefix SID
Context	reset router *string* isis *reference* sid-egress-stats node prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-prefix-prefix-length**] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*

Synopsis	Node prefix
Context	reset router *string* isis *reference* sid-egress-stats node prefix [ip-prefix-prefix-length] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*
Tree	[ip-prefix-prefix-length]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sid-ingress-stats

Synopsis	Enter the **sid-ingress-stats** context
Context	reset router *string* isis *reference* sid-ingress-stats
Tree	sid-ingress-stats
Introduced	25.3.R2
Platforms	SAR Gen 2

adj

Synopsis	Enter the **adj** context
Context	reset router *string* isis *reference* sid-ingress-stats adj
Tree	adj
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset ingress SID statistics for all adjacencies
Context	reset router *string* isis *reference* sid-ingress-stats adj all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface

Synopsis	Reset ingress SID statistics for an adjacency
Context	reset router *string* isis *reference* sid-ingress-stats adj interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *string*

Synopsis	Interface name
Context	reset router *string* isis *reference* sid-ingress-stats adj interface [interface-name] *string*
Tree	[interface-name]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

adj-set

Synopsis	Enter the **adj-set** context
Context	reset router *string* isis *reference* sid-ingress-stats adj-set
Tree	adj-set
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset ingress SID statistics for all adjacency sets
Context	reset router *string* isis *reference* sid-ingress-stats adj-set all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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id

Synopsis	Reset ingress statistics for the adjacency set ID
Context	reset router *string* isis *reference* sid-ingress-stats adj-set id
Tree	id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	Adjacency set ID
Context	reset router *string* isis *reference* sid-ingress-stats adj-set id [id] *reference*
Tree	[id]
Reference	**state router** *named-item-64* **isis** *number* **segment-routing adjacency-set** *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all ingress SID statistics
Context	reset router *string* isis *reference* sid-ingress-stats all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

node

Synopsis	Enter the **node** context
Context	reset router *string* isis *reference* sid-ingress-stats node
Tree	node
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset all ingress node SID statistics
Context	reset router *string* isis *reference* sid-ingress-stats node all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset ingress statistics for a node prefix SID
Context	reset router *string* isis *reference* sid-ingress-stats node prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-prefix-length**] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*

Synopsis	Node prefix
Context	reset router *string* isis *reference* sid-ingress-stats node prefix [ip-prefix-prefix-length] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*
Tree	[ip-prefix-prefix-length]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-log

Synopsis	Reset the IS-IS SPF log
Context	reset router *string* isis *reference* spf-log
Tree	spf-log
Introduced	25.3.R2
Platforms	SAR Gen 2

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statistics

Synopsis	Reset IS-IS statistics
Context	reset router *string* isis *reference* statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp

Synopsis	Enter the **ldp** context
Context	reset router *string* ldp
Tree	ldp
Description	Commands in this context configure the LDP reset operations.
Introduced	25.10.R1
Platforms	SAR Gen 2

fec-egress-statistics

Synopsis	Reset LDP FEC egress statistics
Context	reset router *string* ldp fec-egress-statistics
Tree	fec-egress-statistics
Introduced	25.10.R1
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix FEC
Context	reset router *string* ldp fec-egress-statistics [ip-prefix] *(ipv4-prefix | ipv6-prefix)*
Tree	[ip-prefix]
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

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instance

Synopsis	Reset LDP instance
Context	reset router *string* ldp instance
Tree	instance
Introduced	25.10.R1
Platforms	SAR Gen 2

[**address-family**] *keyword*

Synopsis	Address family type
Context	reset router *string* ldp instance [address-family] *keyword*
Tree	[address-family]
Options	ipv4, ipv6
Introduced	25.10.R1
Platforms	SAR Gen 2

interface

Synopsis	Reset an LDP interface or its statistics
Context	reset router *string* ldp interface
Tree	interface
Introduced	25.10.R1
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	LDP interface name
Context	reset router *string* ldp interface [interface-name] *reference*
Tree	[interface-name]
Reference	**state router** *named-item-64* **ldp interface-parameters interface** *reference*
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

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ipv4

Synopsis	Reset an IPv4 LDP sub-interface or its statistics
Context	reset router *string* ldp interface ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.10.R1
Platforms	SAR Gen 2

ipv6

Synopsis	Reset an IPv6 LDP sub-interface or its statistics
Context	reset router *string* ldp interface ipv6
Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.10.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset LDP interface statistics
Context	reset router *string* ldp interface statistics
Tree	statistics
Introduced	25.10.R1
Platforms	SAR Gen 2

peer

Synopsis	Reset statistics for LDP targeted peer
Context	reset router *string* ldp peer
Tree	peer
Introduced	25.10.R1
Platforms	SAR Gen 2

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[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer address
Context	reset router *string* ldp peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	[ip-address]
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset LDP targeted peer statistics
Context	reset router *string* ldp peer statistics
Tree	statistics
Introduced	25.10.R1
Platforms	SAR Gen 2

resource-failures

Synopsis	Reset resource overload status of LDP instance
Context	reset router *string* ldp resource-failures
Tree	resource-failures
Introduced	25.10.R1
Platforms	SAR Gen 2

session

Synopsis	Reset overload or statistics for LDP session
Context	reset router *string* ldp session
Tree	session
Introduced	25.10.R1
Platforms	SAR Gen 2

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fec-type *keyword*

Synopsis	Overload FEC type
Context	reset router *string* ldp session fec-type *keyword*
Tree	fec-type
Description	This command specifies the overload Forwarding Equivalence Class (FEC) type.
Options	p2mp, prefixes, svc-fec128, svc-fec129
Notes	The following elements are part of a choice: (**fec-type**, **overload**, and **sub-type**) or **statistics**.
Introduced	25.10.R1
Platforms	SAR Gen 2

overload

Synopsis	Reset resource overload status
Context	reset router *string* ldp session overload
Tree	overload
Notes	The following elements are part of a choice: (**fec-type**, **overload**, and **sub-type**) or **statistics**.
Introduced	25.10.R1
Platforms	SAR Gen 2

[**peer-lsr-id**] *reference*

Synopsis	Peer LSR ID
Context	reset router *string* ldp session [peer-lsr-id] *reference*
Tree	[peer-lsr-id]
Reference	**state router** *named-item-64* **ldp session** *lsr-id*
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset LDP session statistics

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Context	reset router *string* ldp session statistics
Tree	statistics
Notes	The following elements are part of a choice: (**fec-type**, **overload**, and **sub-type**) or **statistics**.
Introduced	25.10.R1
Platforms	SAR Gen 2

sub-type *keyword*

Synopsis	Overload FEC subtype for P2MP or prefixes
Context	reset router *string* ldp session sub-type *keyword*
Tree	sub-type
Options	ipv4, ipv6
Notes	The following elements are part of a choice: (**fec-type**, **overload**, and **sub-type**) or **statistics**.
Introduced	25.10.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset LDP statistics
Context	reset router *string* ldp statistics
Tree	statistics
Introduced	25.10.R1
Platforms	SAR Gen 2

targeted-auto-rx

Synopsis	Reset LDP auto-rx
Context	reset router *string* ldp targeted-auto-rx
Tree	targeted-auto-rx
Description	When specified, the system resets unneeded automatic T-LDP sessions on all applicable nodes.
Introduced	25.10.R1
Platforms	SAR Gen 2

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hold-time *number*

Synopsis	Hold-time where auto-rx targeted peers do not generate
Context	reset router *string* ldp targeted-auto-rx hold-time *number*
Tree	hold-time
Range	1 to 65535
Units	seconds
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

mld

Synopsis	Enter the **mld** context
Context	reset router *string* mld
Tree	mld
Description	Commands in this context perform reset operations on Multicast Listener Discovery (MLD) entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

database

Synopsis	Enter the **database** context
Context	reset router *string* mld database
Tree	database
Description	Commands in this context reset MLD database entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset database for all interfaces, groups, and hosts
Context	reset router *string* mld database all
Tree	all

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Introduced	25.3.R2
Platforms	SAR Gen 2

group *ipv6-multicast-address*

Synopsis	Group address
Context	reset router *string* mld database all group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

source *ipv6-unicast-address*

Synopsis	Source address
Context	reset router *string* mld database all source *ipv6-unicast-address*
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset the database on an interface
Context	reset router *string* mld database interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

group *ipv6-multicast-address*

Synopsis	Group address
Context	reset router *string* mld database interface group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* mld database interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

source *ipv6-unicast-address*

Synopsis	Source address
Context	reset router *string* mld database interface source *ipv6-unicast-address*
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Enter the **statistics** context
Context	reset router *string* mld statistics
Tree	statistics
Description	Commands in this context reset MLD statistics entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset statistics for all interfaces, groups, and hosts
Context	reset router *string* mld statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface

Synopsis	Reset the statistics on an interface
Context	reset router *string* mld statistics interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* mld statistics interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

version

Synopsis	Enter the **version** context
Context	reset router *string* mld version
Tree	version
Description	Commands in this context reset the MLD version entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset the version for all interfaces, groups, and hosts
Context	reset router *string* mld version all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface

Synopsis	Reset the version on an interface
Context	reset router *string* mld version interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* mld version interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

msdp

Synopsis	Enter the **msdp** context
Context	reset router *string* msdp
Tree	msdp
Description	Commands in this context perform reset operations on Multicast Source Discovery Protocol (MSDP) entities and statistics.
Introduced	25.3.R2
Platforms	SAR Gen 2

cache

Synopsis	Reset the MSDP cache
Context	reset router *string* msdp cache
Tree	cache
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-address *ipv4-multicast-address*

Synopsis	Group address
Context	reset router *string* msdp cache group-address *ipv4-multicast-address*
Tree	group-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-rp-address *ipv4-unicast-address*

Synopsis	Origin RP address
Context	reset router *string* msdp cache origin-rp-address *ipv4-unicast-address*
Tree	origin-rp-address
Description	This command specifies the origin Rendezvous Point (RP) address type of the source-active (SA) entry to reset.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *ipv4-unicast-address*

Synopsis	Peer address
Context	reset router *string* msdp cache peer-address *ipv4-unicast-address*
Tree	peer-address
Description	This command specifies the peer address of the cache of the IP address for the peer where MSDP SA requests for groups matching the group range for this entry were sent.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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source-address *ipv4-unicast-address*

Synopsis	Source address
Context	reset router *string* msdp cache source-address *ipv4-unicast-address*
Tree	source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset the statistics
Context	reset router *string* msdp statistics
Tree	statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *ipv4-unicast-address*

Synopsis	Peer address
Context	reset router *string* msdp statistics peer-address *ipv4-unicast-address*
Tree	peer-address
Description	This command specifies the peer address for resetting statistics where MSDP SA requests for groups matching the group range for this entry were sent.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	reset router *string* neighbor
Tree	neighbor
Description	Commands in this context reset neighbor information.

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Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Reset the IPv6 neighbor information
Context	reset router *string* neighbor address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

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

Synopsis	IPv6 address
Context	reset router *string* neighbor address ipv6-address *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	ipv6-address
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset information for all neighbors of all interfaces
Context	reset router *string* neighbor all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset all neighbors of the router interface
Context	reset router *string* neighbor interface
Tree	interface

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Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* neighbor interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf [ospf-instance] *number*

Synopsis	Enter the **ospf** list instance
Context	reset router *string* ospf *number*
Tree	ospf
Description	Commands in this context clear and reset OSPF protocol entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPF instance
Context	reset router *string* ospf *number*
Tree	ospf
Max. range	0 to 4294967295
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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database

Synopsis	Reset and refresh LSAs
Context	reset router *string* ospf *number* database
Tree	database
Description	When configured, the system clears all LSAs received from other nodes, sets all adjacencies other than two-way to one-way, and refreshes all self-originated LSAs.
Introduced	25.3.R2
Platforms	SAR Gen 2

purge

Synopsis	Reset LSAs
Context	reset router *string* ospf *number* database purge
Tree	purge
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Reset and re-evaluate export policies
Context	reset router *string* ospf *number* export
Tree	export
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Reset neighbor adjacencies
Context	reset router *string* ospf *number* neighbor
Tree	neighbor
Description	This command marks the neighbor as dead and re-initiates the affected adjacencies.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *string*

Synopsis	Neighbor interface name
Context	reset router *string* ospf *number* neighbor interface-name *string*
Tree	interface-name
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *ipv4-address*

Synopsis	Neighbor router ID
Context	reset router *string* ospf *number* neighbor router-id *ipv4-address*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

overload

Synopsis	Reset the OSPF overload
Context	reset router *string* ospf *number* overload
Tree	overload
Introduced	25.3.R2
Platforms	SAR Gen 2

[**overload-type**] *keyword*

Synopsis	Overload type
Context	reset router *string* ospf *number* overload [overload-type] *keyword*
Tree	[overload-type]
Options	fib, rtm, rtr-adv-lsa-limit
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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sid-egress-stats

Synopsis	Enter the **sid-egress-stats** context
Context	reset router *string* ospf *number* sid-egress-stats
Tree	sid-egress-stats
Introduced	25.3.R2
Platforms	SAR Gen 2

adj

Synopsis	Enter the **adj** context
Context	reset router *string* ospf *number* sid-egress-stats adj
Tree	adj
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset egress statistics for all adjacency SIDs
Context	reset router *string* ospf *number* sid-egress-stats adj all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset egress adjacency SID statistics for an interface
Context	reset router *string* ospf *number* sid-egress-stats adj interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Interface name

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Context	reset router *string* ospf *number* sid-egress-stats adj interface [interface-name] *reference*
Tree	[interface-name]
Reference	**state router** *named-item-64* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

adj-set

Synopsis	Enter the **adj-set** context
Context	reset router *string* ospf *number* sid-egress-stats adj-set
Tree	adj-set
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset egress statistics for all adjacency sets
Context	reset router *string* ospf *number* sid-egress-stats adj-set all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Reset egress statistics for an adjacency set
Context	reset router *string* ospf *number* sid-egress-stats adj-set id
Tree	id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	Adjacency set ID
Context	reset router *string* ospf *number* sid-egress-stats adj-set id [id] *reference*

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Tree	[id]
Reference	**state router** *named-item-64* **ospf** *number* **segment-routing adjacency-set** *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all egress SID statistics
Context	reset router *string* ospf *number* sid-egress-stats all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

node

Synopsis	Enter the **node** context
Context	reset router *string* ospf *number* sid-egress-stats node
Tree	node
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset egress statistics for all prefix SIDs
Context	reset router *string* ospf *number* sid-egress-stats node all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset egress SID statistics for a prefix
Context	reset router *string* ospf *number* sid-egress-stats node prefix
Tree	prefix

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*

Synopsis	Node prefix
Context	reset router *string* ospf *number* sid-egress-stats node prefix [prefix] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sid-ingress-stats

Synopsis	Enter the **sid-ingress-stats** context
Context	reset router *string* ospf *number* sid-ingress-stats
Tree	sid-ingress-stats
Introduced	25.3.R2
Platforms	SAR Gen 2

adj

Synopsis	Enter the **adj** context
Context	reset router *string* ospf *number* sid-ingress-stats adj
Tree	adj
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset ingress statistics for all adjacency SIDs
Context	reset router *string* ospf *number* sid-ingress-stats adj all
Tree	all
Introduced	25.3.R2

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Platforms	SAR Gen 2

interface

Synopsis	Reset ingress adjacency SID statistics on an interface
Context	reset router *string* ospf *number* sid-ingress-stats adj interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Interface name
Context	reset router *string* ospf *number* sid-ingress-stats adj interface [interface-name] *reference*
Tree	[interface-name]
Reference	**state router** *named-item-64* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

adj-set

Synopsis	Enter the **adj-set** context
Context	reset router *string* ospf *number* sid-ingress-stats adj-set
Tree	adj-set
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset ingress statistics for all adjacency sets
Context	reset router *string* ospf *number* sid-ingress-stats adj-set all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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id

Synopsis	Reset ingress statistics for a specific adjacency set
Context	reset router *string* ospf *number* sid-ingress-stats adj-set id
Tree	id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	Adjacency set ID
Context	reset router *string* ospf *number* sid-ingress-stats adj-set id [id] *reference*
Tree	[id]
Reference	**state router** *named-item-64* **ospf** *number* **segment-routing adjacency-set** *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all ingress SID statistics
Context	reset router *string* ospf *number* sid-ingress-stats all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

node

Synopsis	Enter the **node** context
Context	reset router *string* ospf *number* sid-ingress-stats node
Tree	node
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Reset ingress statistics for all prefix SIDs
Context	reset router *string* ospf *number* sid-ingress-stats node all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset ingress statistics for a prefix SID
Context	reset router *string* ospf *number* sid-ingress-stats node prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*

Synopsis	Node prefix
Context	reset router *string* ospf *number* sid-ingress-stats node prefix [prefix] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset OSPF statistics
Context	reset router *string* ospf *number* statistics
Tree	statistics
Description	When configured, the system clears all neighbor, router, interface, SPF and global statistics of this OSPF instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ospf3 [ospf-instance] *number*

Synopsis	Enter the **ospf3** list instance
Context	reset router *string* ospf3 *number*
Tree	ospf3
Description	Commands in this context clear and reset OSPFv3 protocol entities.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPFv3 instance
Context	reset router *string* ospf3 *number*
Tree	ospf3
Max. range	0 to 4294967295
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

database

Synopsis	Reset and refresh LSAs
Context	reset router *string* ospf3 *number* database
Tree	database
Description	When configured, the system clears all LSAs received from other nodes, sets all adjacencies other than two-way to one-way, and refreshes all self-originated LSAs.
Introduced	25.3.R2
Platforms	SAR Gen 2

purge

Synopsis	Reset LSAs
Context	reset router *string* ospf3 *number* database purge

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Tree	purge
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Reset and re-evaluate export policies
Context	reset router *string* ospf3 *number* export
Tree	export
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Reset neighbor adjacencies
Context	reset router *string* ospf3 *number* neighbor
Tree	neighbor
Description	When configured, this command marks the neighbor as dead and reinitiates the affected adjacencies.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	Neighbor interface name
Context	reset router *string* ospf3 *number* neighbor interface-name *string*
Tree	interface-name
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *ipv4-address*

Synopsis	Router ID of the neighbor to reset
Context	reset router *string* ospf3 *number* neighbor router-id *ipv4-address*
Tree	router-id

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

overload

Synopsis	Reset the OSPF overload
Context	reset router *string* ospf3 *number* overload
Tree	overload
Introduced	25.3.R2
Platforms	SAR Gen 2

[**overload-type**] *keyword*

Synopsis	Overload type
Context	reset router *string* ospf3 *number* overload [overload-type] *keyword*
Tree	[overload-type]
Options	fib, rtm, rtr-adv-lsa-limit
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sid-egress-stats

Synopsis	Enter the **sid-egress-stats** context
Context	reset router *string* ospf3 *number* sid-egress-stats
Tree	sid-egress-stats
Introduced	25.3.R2
Platforms	SAR Gen 2

adj

Synopsis	Enter the **adj** context
Context	reset router *string* ospf3 *number* sid-egress-stats adj

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Tree	adj
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset egress statistics for all adjacency SIDs
Context	reset router *string* ospf3 *number* sid-egress-stats adj all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset statistics for adjacency SIDs on an interface
Context	reset router *string* ospf3 *number* sid-egress-stats adj interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Interface name
Context	reset router *string* ospf3 *number* sid-egress-stats adj interface [interface-name] *reference*
Tree	[interface-name]
Reference	**state router** *named-item-64* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all egress SID statistics
Context	reset router *string* ospf3 *number* sid-egress-stats all

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Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

node

Synopsis	Enter the **node** context
Context	reset router *string* ospf3 *number* sid-egress-stats node
Tree	node
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset egress statistics for all prefix SIDs
Context	reset router *string* ospf3 *number* sid-egress-stats node all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Reset egress statistics for SIDs of a specific prefix
Context	reset router *string* ospf3 *number* sid-egress-stats node prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*

Synopsis	Node prefix
Context	reset router *string* ospf3 *number* sid-egress-stats node prefix [prefix] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*
Tree	[prefix]
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

sid-ingress-stats

Synopsis	Enter the **sid-ingress-stats** context
Context	reset router *string* ospf3 *number* sid-ingress-stats
Tree	sid-ingress-stats
Introduced	25.3.R2
Platforms	SAR Gen 2

adj

Synopsis	Enter the **adj** context
Context	reset router *string* ospf3 *number* sid-ingress-stats adj
Tree	adj
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset ingress statistics for all adjacency SIDs
Context	reset router *string* ospf3 *number* sid-ingress-stats adj all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset statistics for adjacency SIDs on an interface
Context	reset router *string* ospf3 *number* sid-ingress-stats adj interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**interface-name**] *reference*

Synopsis	Interface name
Context	reset router *string* ospf3 *number* sid-ingress-stats adj interface [interface-name] *reference*
Tree	[interface-name]
Reference	**state router** *named-item-64* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all ingress SID statistics
Context	reset router *string* ospf3 *number* sid-ingress-stats all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

node

Synopsis	Enter the **node** context
Context	reset router *string* ospf3 *number* sid-ingress-stats node
Tree	node
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset ingress SID statistics for all prefix SIDs
Context	reset router *string* ospf3 *number* sid-ingress-stats node all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix

Synopsis	Reset ingress statistics for specific prefix SIDs
Context	reset router *string* ospf3 *number* sid-ingress-stats node prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*

Synopsis	Node prefix
Context	reset router *string* ospf3 *number* sid-ingress-stats node prefix [prefix] *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-prefix | ipv6-prefix)*
Tree	[prefix]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Reset OSPF statistics
Context	reset router *string* ospf3 *number* statistics
Tree	statistics
Description	When configured, the system clears all neighbor, router, interface, SPF and global statistics of this OSPF instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

pim

Synopsis	Enter the **pim** context
Context	reset router *string* pim
Tree	pim
Description	Commands in this context perform reset operations on PIM entities.
Introduced	25.3.R2

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Platforms	SAR Gen 2

database

Synopsis	Enter the **database** context
Context	reset router *string* pim database
Tree	database
Description	Commands in this context reset PIM database statistics on a specified interface or IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset the database for all interfaces
Context	reset router *string* pim database all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

group *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Group address
Context	reset router *string* pim database all group *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	IPv4 address
Context	reset router *string* pim database all ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipv6

Synopsis	IPv6 address
Context	reset router *string* pim database all ipv6
Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* pim database all source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset the database for an interface
Context	reset router *string* pim database interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

group *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Group address
Context	reset router *string* pim database interface group *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* pim database interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	IPv4 address
Context	reset router *string* pim database interface ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	IPv6 address
Context	reset router *string* pim database interface ipv6
Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* pim database interface source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source
Introduced	25.3.R2

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Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	reset router *string* pim neighbor
Tree	neighbor
Description	Commands in this context reset PIM neighbor data on a specified interface or IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset the neighbors on all interfaces
Context	reset router *string* pim neighbor all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Neighbor address
Context	reset router *string* pim neighbor all address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	IPv4 address
Context	reset router *string* pim neighbor all ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipv6

Synopsis	IPv6 address
Context	reset router *string* pim neighbor all ipv6
Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset the neighbors on an interface
Context	reset router *string* pim neighbor interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Neighbor address
Context	reset router *string* pim neighbor interface address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* pim neighbor interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	IPv4 address
Context	reset router *string* pim neighbor interface ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	IPv6 address
Context	reset router *string* pim neighbor interface ipv6
Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

s-pmsi

Synopsis	Enter the **s-pmsi** context
Context	reset router *string* pim s-pmsi
Tree	s-pmsi
Description	Commands in this context reset the PIM Selective Provider Multicast Service Interface (S-PMSI) cache.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset all
Context	reset router *string* pim s-pmsi all

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Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

md

Synopsis	Reset the MD
Context	reset router *string* pim s-pmsi md
Tree	md
Description	This command specifies the source address used for the Multicast Distribution Tree (MDT) to reset.
Introduced	25.3.R2
Platforms	SAR Gen 2

group *ipv4-multicast-address*

Synopsis	Group address
Context	reset router *string* pim s-pmsi md group *ipv4-multicast-address*
Tree	group
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

source *ipv4-unicast-address*

Synopsis	Source address
Context	reset router *string* pim s-pmsi md source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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vprn

Synopsis	Reset the VPRN
Context	reset router *string* pim s-pmsi vprn
Tree	vprn
Introduced	25.3.R2
Platforms	SAR Gen 2

group *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Group address
Context	reset router *string* pim s-pmsi vprn group *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-group *ipv4-multicast-address*

Synopsis	MD group address
Context	reset router *string* pim s-pmsi vprn md-group *ipv4-multicast-address*
Tree	md-group
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

md-source *ipv4-unicast-address*

Synopsis	MD source address
Context	reset router *string* pim s-pmsi vprn md-source *ipv4-unicast-address*
Tree	md-source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Introduced	25.3.R2
Platforms	SAR Gen 2

source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* pim s-pmsi vprn source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Enter the **statistics** context
Context	reset router *string* pim statistics
Tree	statistics
Description	Commands in this context reset PIM statistics on a specified interface or IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Reset the statistics for all interfaces
Context	reset router *string* pim statistics all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

group *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Group address
Context	reset router *string* pim statistics all group *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	IPv4 address
Context	reset router *string* pim statistics all ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	IPv6 address
Context	reset router *string* pim statistics all ipv6
Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* pim statistics all source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Reset the statistics for an interface
Context	reset router *string* pim statistics interface
Tree	interface

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Introduced	25.3.R2
Platforms	SAR Gen 2

group *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Group address
Context	reset router *string* pim statistics interface group *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	reset router *string* pim statistics interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	IPv4 address
Context	reset router *string* pim statistics interface ipv4
Tree	ipv4
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	IPv6 address
Context	reset router *string* pim statistics interface ipv6

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Tree	ipv6
Notes	The following elements are part of a choice: **ipv4** or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address
Context	reset router *string* pim statistics interface source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp

Synopsis	Enter the **vrrp** context
Context	reset router *string* vrrp
Tree	vrrp
Introduced	25.3.R2
Platforms	SAR Gen 2

instances

Synopsis	Enter the **instances** context
Context	reset router *string* vrrp instances
Tree	instances
Description	Commands in this context reset VRRP protocol instances.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	reset router *string* vrrp instances interface *interface-name*

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Tree	interface
Description	Commands in this context reset VRRP protocol instances on an IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	reset router *string* vrrp instances interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-vrid

Synopsis	Reset all VRRP instances on the interface
Context	reset router *string* vrrp instances interface *interface-name* all-vrid
Tree	all-vrid
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	reset router *string* vrrp instances interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid

Synopsis	Reset the IPv4 VRRP instance
Context	reset router *string* vrrp instances interface *interface-name* ipv4 vrid

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Tree	vrid
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-router-id *number*

Synopsis	VRRP instance to reset
Context	reset router *string* vrrp instances interface *interface-name* ipv4 vrid virtual-router-id *number*
Tree	virtual-router-id
Max. range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	reset router *string* vrrp instances interface *interface-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid

Synopsis	Reset the IPv6 VRRP instance
Context	reset router *string* vrrp instances interface *interface-name* ipv6 vrid
Tree	vrid
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-router-id *number*

Synopsis	VRRP instance to reset
Context	reset router *string* vrrp instances interface *interface-name* ipv6 vrid virtual-router-id *number*
Tree	virtual-router-id

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Max. range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Enter the **statistics** context
Context	reset router *string* vrrp statistics
Tree	statistics
Description	Commands in this context reset statistics for VRRP instances on an IP interface or VRRP priority control policies.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-statistics

Synopsis	Reset statistics of VRRP instances on all interfaces
Context	reset router *string* vrrp statistics all-statistics
Tree	all-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	reset router *string* vrrp statistics interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	reset router *string* vrrp statistics interface *interface-name*
Tree	interface

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String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-vrid

Synopsis	Reset statistics of all VRRP instances on the interface
Context	reset router *string* vrrp statistics interface *interface-name* all-vrid
Tree	all-vrid
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	reset router *string* vrrp statistics interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid

Synopsis	Reset statistics of the IPv4 VRRP instance
Context	reset router *string* vrrp statistics interface *interface-name* ipv4 vrid
Tree	vrid
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-router-id *number*

Synopsis	VRRP instance to reset
Context	reset router *string* vrrp statistics interface *interface-name* ipv4 vrid virtual-router-id *number*
Tree	virtual-router-id

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Max. range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	reset router *string* vrrp statistics interface *interface-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid

Synopsis	Reset statistics of the IPv6 VRRP instance
Context	reset router *string* vrrp statistics interface *interface-name* ipv6 vrid
Tree	vrid
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-router-id *number*

Synopsis	VRRP instance to reset
Context	reset router *string* vrrp statistics interface *interface-name* ipv6 vrid virtual-router-id *number*
Tree	virtual-router-id
Max. range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

saa

Synopsis	Enter the **saa** context
Context	reset saa
Tree	saa
Introduced	25.3.R2

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Platforms	SAR Gen 2

owner [owner-name] *reference* test *reference*

Synopsis	Enter the **owner** list instance
Context	reset saa owner *reference* test *reference*
Tree	owner
Introduced	25.3.R2
Platforms	SAR Gen 2

[**owner-name**] *reference*

Synopsis	Name of SAA test owner for which to reset statistics
Context	reset saa owner *reference* test *reference*
Tree	owner
MD-CLI default	TiMOS CLI
Reference	**state saa owner** *named-item* **test** *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

test *reference*

Synopsis	Name of the SAA test for which to reset statistics
Context	reset saa owner *reference* test *reference*
Tree	owner
Reference	**state saa owner** *named-item* **test** *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

statistics

Synopsis	Clear the SAA test statistics

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Context	reset saa owner *reference* test *reference* statistics
Tree	statistics
Description	This command clears historical statistics for a completed run. If this option is not configured, the reset operation has no impact.
Introduced	25.3.R2
Platforms	SAR Gen 2

service

Synopsis	Enter the **service** context
Context	reset service
Tree	service
Introduced	25.10.R1
Platforms	SAR Gen 2

statistics

Synopsis	Enter the **statistics** context
Context	reset service statistics
Tree	statistics
Introduced	25.10.R1
Platforms	SAR Gen 2

name [service-name] *service-name*

Synopsis	Enter the **name** list instance
Context	reset service statistics name *service-name*
Tree	name
Introduced	25.10.R1
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Service name
Context	reset service statistics name *service-name*

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Tree	name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

counters

Synopsis	Reset counters
Context	reset service statistics name *service-name* counters
Tree	counters
Introduced	25.10.R1
Platforms	SAR Gen 2

l2pt

Synopsis	Reset L2PT statistics
Context	reset service statistics name *service-name* l2pt
Tree	l2pt
Introduced	25.10.R1
Platforms	SAR Gen 2

mesh-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **mesh-sdp** list instance
Context	reset service statistics name *service-name* mesh-sdp *sdp-bind-id*
Tree	mesh-sdp
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	Enter spoke-sdp context
Context	reset service statistics name *service-name* mesh-sdp *sdp-bind-id*

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Tree	mesh-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

all

Synopsis	Reset all
Context	reset service statistics name *service-name* mesh-sdp *sdp-bind-id* all
Tree	all
Introduced	25.10.R1
Platforms	SAR Gen 2

counters

Synopsis	Reset counters
Context	reset service statistics name *service-name* mesh-sdp *sdp-bind-id* counters
Tree	counters
Introduced	25.10.R1
Platforms	SAR Gen 2

stp

Synopsis	Reset STP statistics
Context	reset service statistics name *service-name* mesh-sdp *sdp-bind-id* stp
Tree	stp
Introduced	25.10.R1
Platforms	SAR Gen 2

pip

Synopsis	Reset PIP statistics
Context	reset service statistics name *service-name* pip

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Tree	pip
Introduced	25.10.R1
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	reset service statistics name *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	Enter spoke-sdp context
Context	reset service statistics name *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

all

Synopsis	Reset all
Context	reset service statistics name *service-name* spoke-sdp *sdp-bind-id* all
Tree	all
Introduced	25.10.R1
Platforms	SAR Gen 2

counters

Synopsis	Reset counters
Context	reset service statistics name *service-name* spoke-sdp *sdp-bind-id* counters

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Tree	counters
Introduced	25.10.R1
Platforms	SAR Gen 2

l2pt

Synopsis	Reset L2PT statistics
Context	reset service statistics name *service-name* spoke-sdp *sdp-bind-id* l2pt
Tree	l2pt
Introduced	25.10.R1
Platforms	SAR Gen 2

stp

Synopsis	Reset STP statistics
Context	reset service statistics name *service-name* spoke-sdp *sdp-bind-id* stp
Tree	stp
Introduced	25.10.R1
Platforms	SAR Gen 2

stp

Synopsis	Reset STP statistics
Context	reset service statistics name *service-name* stp
Tree	stp
Introduced	25.10.R1
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	reset service statistics sap *sap*
Tree	sap
Introduced	25.10.R1
Platforms	SAR Gen 2

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[**sap-id**] *sap*

Synopsis	Enter sap context
Context	reset service statistics sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

all

Synopsis	Reset all
Context	reset service statistics sap *sap* all
Tree	all
Introduced	25.10.R1
Platforms	SAR Gen 2

cem

Synopsis	Reset CEM
Context	reset service statistics sap *sap* cem
Tree	cem
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

counters

Synopsis	Reset counters
Context	reset service statistics sap *sap* counters
Tree	counters
Introduced	25.10.R1
Platforms	SAR Gen 2

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l2pt

Synopsis	Reset L2PT
Context	reset service statistics sap *sap* l2pt
Tree	l2pt
Introduced	25.10.R1
Platforms	SAR Gen 2

stp

Synopsis	Reset STP
Context	reset service statistics sap *sap* stp
Tree	stp
Introduced	25.10.R1
Platforms	SAR Gen 2

sdp [sdp-id] *reference*

Synopsis	Enter the **sdp** list instance
Context	reset service statistics sdp *reference*
Tree	sdp
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sdp-id**] *reference*

Synopsis	Enter sdp context
Context	reset service statistics sdp *reference*
Tree	sdp
Reference	**state service sdp** *number*
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

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keep-alive

Synopsis	Reset keep-alive
Context	reset service statistics sdp *reference* keep-alive
Tree	keep-alive
Introduced	25.10.R1
Platforms	SAR Gen 2

vpls [service-name] *reference*

Synopsis	Enter the **vpls** list instance
Context	reset service vpls *reference*
Tree	vpls
Introduced	25.10.R1
Platforms	SAR Gen 2

[**service-name**] *reference*

Synopsis	VPLS service name
Context	reset service vpls *reference*
Tree	vpls
Reference	**state service vpls** *service-name*
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	reset service vpls *reference* evpn
Tree	evpn
Introduced	25.10.R1
Platforms	SAR Gen 2

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mac-duplication

Synopsis	Enter the **mac-duplication** context
Context	reset service vpls *reference* evpn mac-duplication
Tree	mac-duplication
Introduced	25.10.R1
Platforms	SAR Gen 2

all

Synopsis	Reset all FDB items
Context	reset service vpls *reference* evpn mac-duplication all
Tree	all
Introduced	25.10.R1
Platforms	SAR Gen 2

duplicate-mac

Synopsis	Reset operations on the duplicate MAC
Context	reset service vpls *reference* evpn mac-duplication duplicate-mac
Tree	duplicate-mac
Introduced	25.10.R1
Platforms	SAR Gen 2

[**mac-address**] *reference*

Synopsis	MAC address
Context	reset service vpls *reference* evpn mac-duplication duplicate-mac [mac-address] *reference*
Tree	[mac-address]
Reference	**state service vpls** *service-name* **bgp-evpn mac-duplication duplicate-macs address** *mac-address*
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

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fdb

Synopsis	Enter the **fdb** context
Context	reset service vpls *reference* fdb
Tree	fdb
Introduced	25.10.R1
Platforms	SAR Gen 2

all

Synopsis	Reset all FDB items
Context	reset service vpls *reference* fdb all
Tree	all
Introduced	25.10.R1
Platforms	SAR Gen 2

mac

Synopsis	Reset operation on the MAC
Context	reset service vpls *reference* fdb mac
Tree	mac
Introduced	25.10.R1
Platforms	SAR Gen 2

[**mac-address**] *mac-unicast-address-no-zero*

Synopsis	MAC address
Context	reset service vpls *reference* fdb mac [mac-address] *mac-unicast-address-no-zero*
Tree	[mac-address]
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

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mesh-sdp

Synopsis	Reset operation on the mesh-sdp
Context	reset service vpls *reference* fdb mesh-sdp
Tree	mesh-sdp
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sdp-bind-id**] *reference*

Synopsis	SDP bind ID
Context	reset service vpls *reference* fdb mesh-sdp [sdp-bind-id] *reference*
Tree	[sdp-bind-id]
Reference	**state service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

sap

Synopsis	Reset operation on the SAP
Context	reset service vpls *reference* fdb sap
Tree	sap
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sap-id**] *reference*

Synopsis	SAP ID
Context	reset service vpls *reference* fdb sap [sap-id] *reference*
Tree	[sap-id]
Reference	**state service vpls** *service-name* **sap** *sap*
Notes	This element is mandatory.
Introduced	25.10.R1

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Platforms	SAR Gen 2

spoke-sdp

Synopsis	Reset operation on the spoke SDP
Context	reset service vpls *reference* fdb spoke-sdp
Tree	spoke-sdp
Introduced	25.10.R1
Platforms	SAR Gen 2

[**sdp-bind-id**] *reference*

Synopsis	Specifies the spoke-sdp
Context	reset service vpls *reference* fdb spoke-sdp [sdp-bind-id] *reference*
Tree	[sdp-bind-id]
Reference	**state service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

proxy-arp

Synopsis	Enter the **proxy-arp** context
Context	reset service vpls *reference* proxy-arp
Tree	proxy-arp
Introduced	25.10.R1
Platforms	SAR Gen 2

duplicate

Synopsis	Reset operation on the IP address
Context	reset service vpls *reference* proxy-arp duplicate
Tree	duplicate
Introduced	25.10.R1
Platforms	SAR Gen 2

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[**ip-address**] *ipv4-address*

Synopsis	IP address
Context	reset service vpls *reference* proxy-arp duplicate [ip-address] *ipv4-address*
Tree	[ip-address]
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.10.R1
Platforms	SAR Gen 2

dynamic

Synopsis	Reset operation on the IP address
Context	reset service vpls *reference* proxy-arp dynamic
Tree	dynamic
Introduced	25.10.R1
Platforms	SAR Gen 2

[**ip-address**] *ipv4-address*

Synopsis	IP address
Context	reset service vpls *reference* proxy-arp dynamic [ip-address] *ipv4-address*
Tree	[ip-address]
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.10.R1
Platforms	SAR Gen 2

proxy-nd

Synopsis	Enter the **proxy-nd** context
Context	reset service vpls *reference* proxy-nd
Tree	proxy-nd
Introduced	25.10.R1
Platforms	SAR Gen 2

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duplicate

Synopsis	Reset operation on the specified ip-address
Context	reset service vpls *reference* proxy-nd duplicate
Tree	duplicate
Introduced	25.10.R1
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address
Context	reset service vpls *reference* proxy-nd duplicate [ipv6-address] *ipv6-address*
Tree	[ipv6-address]
Introduced	25.10.R1
Platforms	SAR Gen 2

dynamic

Synopsis	Reset operation on the IP address
Context	reset service vpls *reference* proxy-nd dynamic
Tree	dynamic
Introduced	25.10.R1
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address
Context	reset service vpls *reference* proxy-nd dynamic [ipv6-address] *ipv6-address*
Tree	[ipv6-address]
Introduced	25.10.R1
Platforms	SAR Gen 2

system

Synopsis	Enter the **system** context

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Context	reset system
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

management-interface

Synopsis	Enter the **management-interface** context
Context	reset system management-interface
Tree	management-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf

Synopsis	Enter the **netconf** context
Context	reset system management-interface netconf
Tree	netconf
Introduced	25.7.R1
Platforms	SAR Gen 2

call-home

Synopsis	Enter the **call-home** context
Context	reset system management-interface netconf call-home
Tree	call-home
Introduced	25.7.R1
Platforms	SAR Gen 2

all-client

Synopsis	Enter the **all-client** context
Context	reset system management-interface netconf call-home all-client
Tree	all-client
Introduced	25.7.R1

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Platforms	SAR Gen 2

statistics

Synopsis	Reset statistics of all NETCONF call-home clients
Context	reset system management-interface netconf call-home all-client statistics
Tree	statistics
Introduced	25.7.R1
Platforms	SAR Gen 2

netconf-client [netconf-client] *reference*

Synopsis	Enter the **netconf-client** list instance
Context	reset system management-interface netconf call-home netconf-client *reference*
Tree	netconf-client
Description	Commands in this context reset operations for NETCONF call-home clients.
Introduced	25.7.R1
Platforms	SAR Gen 2

[**netconf-client**] *reference*

Synopsis	NETCONF client
Context	reset system management-interface netconf call-home netconf-client *reference*
Tree	netconf-client
Reference	**state system management-interface netconf call-home netconf-client** *named-item*
Notes	This element is part of a list key.
Introduced	25.7.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset NETCONF call-home client statistics
Context	reset system management-interface netconf call-home netconf-client *reference* statistics
Tree	statistics
Introduced	25.7.R1

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Platforms	SAR Gen 2

listen

Synopsis	Enter the **listen** context
Context	reset system management-interface netconf listen
Tree	listen
Introduced	25.7.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset NETCONF listen server statistics
Context	reset system management-interface netconf listen statistics
Tree	statistics
Introduced	25.7.R1
Platforms	SAR Gen 2

ntp

Synopsis	Enter the **ntp** context
Context	reset system ntp
Tree	ntp
Introduced	25.10.R1
Platforms	SAR Gen 2

statistics

Synopsis	Reset NTP statistics
Context	reset system ntp statistics
Tree	statistics
Introduced	25.10.R1
Platforms	SAR Gen 2

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ptp

Synopsis	Enter the **ptp** context
Context	reset system ptp
Tree	ptp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clock-recovery

Synopsis	Reset PTP clock recovery algorithm
Context	reset system ptp clock-recovery
Tree	clock-recovery
Description	This command resets the algorithms involved in PTP frequency and time recovery to initial conditions. This clears out any previous history and can be used to ensure a consistent starting state for a test or can be used to clear any unexpected behavior in the algorithm.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

reboot-required

Synopsis	Clear the reboot required state
Context	reset system reboot-required
Tree	reboot-required
Description	This command clears the reboot required information. Use this command after a configuration triggers the reboot required state, but the configuration is removed.
Introduced	25.3.R2
Platforms	SAR Gen 2

script-control

Synopsis	Enter the **script-control** context
Context	reset system script-control
Tree	script-control
Introduced	25.3.R2

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Platforms	SAR Gen 2

script-policy

Synopsis	Enter the **script-policy** context
Context	reset system script-control script-policy
Tree	script-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

completed

Synopsis	Enter the **completed** context
Context	reset system script-control script-policy completed
Tree	completed
Description	Commands in this context delete completed script run history entries.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Delete script run entries for all script policies
Context	reset system script-control script-policy completed all
Tree	all
Introduced	25.3.R2
Platforms	SAR Gen 2

policy

Synopsis	Delete script run entries for specific policies
Context	reset system script-control script-policy completed policy
Tree	policy
Introduced	25.3.R2
Platforms	SAR Gen 2

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owner *reference*

Synopsis	Script-policy owner for run history deletion
Context	reset system script-control script-policy completed policy owner *reference*
Tree	owner
Description	This command specifies the script policy owner for run history deletion. The system only deletes run history entries for script policies with this owner and the specified policy name.
Default	TiMOS CLI
Reference	**state system script-control script-policy** *named-item* **owner** *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *reference*

Synopsis	Script-policy name for run history deletion
Context	reset system script-control script-policy completed policy [policy-name] *reference*
Tree	[policy-name]
Reference	**state system script-control script-policy** *named-item* **owner** *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

security

Synopsis	Enter the **security** context
Context	reset system security
Tree	security
Introduced	25.3.R2
Platforms	SAR Gen 2

management-access-filter

Synopsis	Enter the **management-access-filter** context
Context	reset system security management-access-filter

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Tree	management-access-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-filter

Synopsis	Reset operation on the specified IP filter
Context	reset system security management-access-filter ip-filter
Tree	ip-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the IP filter
Context	reset system security management-access-filter ip-filter entry *reference*
Tree	entry
Reference	**state system security management-access-filter ip-filter entry** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-filter

Synopsis	Reset operation on the specified IPv6 filter
Context	reset system security management-access-filter ipv6-filter
Tree	ipv6-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the IPv6 filter
Context	reset system security management-access-filter ipv6-filter entry *reference*
Tree	entry
Reference	**state system security management-access-filter ipv6-filter entry** *number*

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Introduced	25.3.R2
Platforms	SAR Gen 2

mac-filter

Synopsis	Reset operation on the specified MAC filter
Context	reset system security management-access-filter mac-filter
Tree	mac-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

entry *reference*

Synopsis	Entry ID for the MAC filter
Context	reset system security management-access-filter mac-filter entry *reference*
Tree	entry
Reference	**state system security management-access-filter mac-filter entry** *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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3 Configuration mode commands

This section lists the commands available in MD-CLI configuration modes.

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3.1 Configuration mode commands

See “Editing configuration” in the *7705 SAR Gen 2 MD-CLI User Guide* for more information.

```
- annotate comment-text-type
   - [cli-path] cli-path-type
- commit
   - comment string
   - confirmed
      - accept
      - cancel
      - comment string
      - persist-id string
      - [timeout] number
- compare string [to] string
   - [cli-path] cli-path-type
   - flat
   - full-context
   - lines number
   - netconf-rpc
   - summary
- copy
   - [cli-path] cli-path-type
   - to cli-path-type
- discard
   - [cli-path] cli-path-type
- insert instance-id
   - after
      - [cli-path] instance-id
   - before
      - [cli-path] instance-id
   - beginning
   - end
- load keyword
   - encryption-key string
   - interactive
   - [url] string
- rename
   - [cli-path] cli-path-type
   - to cli-path-type
- replace string with string
   - [cli-path] cli-path-type
   - continue-on-error
   - depth number
   - ignore-case
- rollback
   - commit-id number
   - [rollback-id] (keyword | number)
- update
   - /configure
   - /bof
   - check
   - /debug
   - /li
- validate
```


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3.1.1 Configuration mode command descriptions

annotate [comment-text] *comment-text-type*

Synopsis	Annotate a configuration element with a comment
Context	annotate *comment-text-type*
Tree	annotate
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**comment-text**] *comment-text-type*

Synopsis	Comment for the configuration element
Context	annotate *comment-text-type*
Tree	annotate
String length	0 to 2048
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc, or 'pwc'
Context	annotate *comment-text-type* [cli-path] *cli-path-type*
Tree	[cli-path]
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

commit

Synopsis	Commit the candidate configuration
Context	commit
Tree	commit

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Introduced	25.3.R2
Platforms	7705 SAR Gen 2

comment *string*

Synopsis	Comment associated with the commit
Context	commit comment *string*
Tree	comment
String length	1 to 2048
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

confirmed

Synopsis	Enter the **confirmed** context
Context	commit confirmed
Tree	confirmed
Description	This context is not supported for the BOF or debug configuration regions.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

accept

Synopsis	Accept commit confirmed and cancel automatic rollback
Context	commit confirmed accept
Tree	accept
Notes	The following elements are part of a choice: **accept**, **cancel**, or (**comment** and **timeout**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

cancel

Synopsis	Cancel commit confirmed and roll back changes
Context	commit confirmed cancel

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Tree	cancel
Description	When specified, the router rolls back the configuration and returns the changes to the candidate.
Notes	The following elements are part of a choice: **accept**, **cancel**, or (**comment** and **timeout**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

comment *string*

Synopsis	Comment associated with the commit
Context	commit confirmed comment *string*
Tree	comment
String length	1 to 2048
Notes	The following elements are part of a choice: **accept**, **cancel**, or (**comment** and **timeout**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

persist-id *string*

Synopsis	Persistent confirmed commit ID
Context	commit confirmed persist-id *string*
Tree	persist-id
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**timeout**] *number*

Synopsis	Confirmed commit expiration timeout interval
Context	commit confirmed [timeout] *number*
Tree	[timeout]
Range	1 to 65535
Units	minutes
Default	10

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Notes	The following elements are part of a choice: **accept**, **cancel**, or (**comment** and **timeout**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

compare [from] *string* to *string*

Synopsis	Compare changes between datastores
Context	compare *string* [to] *string*
Tree	compare
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**from**] *string*

Synopsis	Source configuration from which to compare
Context	compare *string* [to] *string*
Tree	compare
MD-CLI default	baseline
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**to**] *string*

Synopsis	Configuration to compare against source configuration
Context	compare *string* [to] *string*
Tree	compare
MD-CLI default	candidate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc
Context	compare *string* [to] *string* [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

flat

Synopsis	Show the context from the pwc on each line
Context	compare *string* [to] *string* flat
Tree	flat
Description	This option shows the hierarchy on each line starting from the present working context.
Notes	The following elements are part of a choice: **flat** or **netconf-rpc**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

full-context

Synopsis	Show the full context on each line
Context	compare *string* [to] *string* full-context
Tree	full-context
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

lines *number*

Synopsis	Number of lines of context to display before and after
Context	compare *string* [to] *string* lines *number*
Tree	lines
Description	This command specifies the number of lines of context to display before and after changed elements. The context is evaluated separately at each container. If the parameter value is larger than the available context, the maximum available context up to the container boundary is displayed.
Max. range	0 to 4294967295

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Default	0
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

netconf-rpc

Synopsis	Display changes in NETCONF <edit-config> RPC format
Context	compare *string* [to] *string* netconf-rpc
Tree	netconf-rpc
Description	This option specifies the display of changes in NETCONF <edit-config> RPC format. This option is only supported with the **summary** option.
Notes	The following elements are part of a choice: **flat** or **netconf-rpc**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

summary

Synopsis	Suppress specific differences and display a summary
Context	compare *string* [to] *string* summary
Tree	summary
Description	This command allows the suppression of specific differences and displays a summarized comparison. The summarized differences in elements under the highest level container that was deleted is displayed with { ... }. A tilde (~) character is displayed to indicate the new value of an element that has changed.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

copy

Synopsis	Copy a configuration element to another
Context	copy
Tree	copy
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc, or 'pwc'
Context	copy [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

to *cli-path-type*

Synopsis	Destination path, or 'pwc'
Context	copy to *cli-path-type*
Tree	to
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

discard

Synopsis	Discard changes in the candidate configuration
Context	discard
Tree	discard
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc
Context	discard [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

insert [new-entry] *instance-id*

Synopsis	Insert an element into a user-ordered list

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Context	insert *instance-id*
Tree	insert
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**new-entry**] *instance-id*

Synopsis	Identification of the new entry
Context	insert *instance-id*
Tree	insert
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

after

Synopsis	Insert an entry after the specified entry
Context	insert *instance-id* after
Tree	after
Notes	The following elements are part of a choice: **after**, **before**, **beginning**, or **end**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *instance-id*

Synopsis	Absolute path or relative path from pwc
Context	insert *instance-id* after [cli-path] *instance-id*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

before

Synopsis	Insert an entry before the specified entry
Context	insert *instance-id* before

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Tree	before
Notes	The following elements are part of a choice: **after**, **before**, **beginning**, or **end**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *instance-id*

Synopsis	Absolute path or relative path from pwc
Context	insert *instance-id* before [cli-path] *instance-id*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

beginning

Synopsis	Insert the new entry at the beginning of the list
Context	insert *instance-id* beginning
Tree	beginning
Notes	The following elements are part of a choice: **after**, **before**, **beginning**, or **end**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

end

Synopsis	Insert the new entry at the end of the list
Context	insert *instance-id* end
Tree	end
Notes	The following elements are part of a choice: **after**, **before**, **beginning**, or **end**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

load [mode] *keyword*

Synopsis	Load configuration into the candidate configuration
Context	load *keyword*

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Tree	load
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**mode**] *keyword*

Synopsis	Load mode
Context	load *keyword*
Tree	load
Options	merge – Merge with the candidate configuration full-replace – Replace the candidate configuration
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

encryption-key *string*

Synopsis	Encryption key of the file to be loaded
Context	load *keyword* encryption-key *string*
Tree	encryption-key
String length	8 to 32
Notes	The following elements are part of a mandatory choice: **interactive** or (**encryption-key** and **url**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

interactive

Synopsis	Load the configuration interactively
Context	load *keyword* interactive
Tree	interactive
Description	This command allows the user to enter configuration commands directly in an interactive session. This command is available with the **merge** option of the **load** command. See "Loading configuration interactively" in the *7705 SAR Gen 2 MD-CLI User Guide* for more information.

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Notes	The following elements are part of a mandatory choice: **interactive** or (**encryption-key** and **url**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**url**] *string*

Synopsis	Location of the file to be loaded
Context	load *keyword* [url] *string*
Tree	[url]
String length	1 to 255
Notes	The following elements are part of a mandatory choice: **interactive** or (**encryption-key** and **url**).
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

rename

Synopsis	Rename a list element
Context	rename
Tree	rename
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**cli-path**] *cli-path-type*

Synopsis	Source element path to the list, or 'pwc'
Context	rename [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

to *cli-path-type*

Synopsis	Destination key name
Context	rename to *cli-path-type*

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Tree	to
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

replace [pattern] *string* with *string*

Synopsis	Match and replace values in the candidate configuration
Context	replace *string* with *string*
Tree	replace
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**pattern**] *string*

Synopsis	String (") or regular expression (') pattern to match
Context	replace *string* with *string*
Tree	replace
Description	This command configures a text string or regular expression that defines the values to match.
String length	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

with *string*

Synopsis	String (") or regular expression (') pattern to replace
Context	replace *string* with *string*
Tree	replace
String length	0 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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[**cli-path**] *cli-path-type*

Synopsis	Absolute path or relative path from pwc
Context	replace *string* with *string* [cli-path] *cli-path-type*
Tree	[cli-path]
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

continue-on-error

Synopsis	Continue the replace operation upon errors
Context	replace *string* with *string* continue-on-error
Tree	continue-on-error
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

depth *number*

Synopsis	Replace operation depth from the pwc
Context	replace *string* with *string* depth *number*
Tree	depth
Range	1 to 4294967040
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

ignore-case

Synopsis	Ignore case in pattern match
Context	replace *string* with *string* ignore-case
Tree	ignore-case
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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rollback

Synopsis	Roll back to a previous configuration
Context	rollback
Tree	rollback
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

commit-id *number*

Synopsis	Commit ID to roll back to
Context	rollback commit-id *number*
Tree	commit-id
Range	1 to 4294967295
Notes	The following elements are part of a choice: **commit-id** or **rollback-id**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

[**rollback-id**] *(keyword | number)*

Synopsis	Previous configuration to roll back to
Context	rollback [rollback-id] *(keyword | number)*
Tree	[rollback-id]
Range	0 to 200
Options	startup – Configuration loaded when the system boots
Notes	The following elements are part of a choice: **commit-id** or **rollback-id**.
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

update

Synopsis	Update the candidate baseline
Context	update
Tree	update
Introduced	25.3.R4

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Platforms	7705 SAR Gen 2

/configure

Synopsis	Update the entire candidate
Context	update /configure
Tree	/configure
Introduced	25.3.R4
Platforms	7705 SAR Gen 2

/bof

Synopsis	Update the entire BOF candidate
Context	update /bof
Tree	/bof
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

check

Synopsis	Perform dry-run update report without an actual update
Context	update check
Tree	check
Introduced	25.3.R4
Platforms	7705 SAR Gen 2

/debug

Synopsis	Update the entire debug candidate
Context	update /debug
Tree	/debug
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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/li

Synopsis	Update the entire LI candidate
Context	update /li
Tree	/li
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

validate

Synopsis	Validate changes in the candidate configuration
Context	validate
Tree	validate
Introduced	25.3.R2
Platforms	7705 SAR Gen 2

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4 Configuration commands

This section lists MD-CLI configuration commands.

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4.1 aaa commands

```
configure
   – aaa
      – apply-groups reference
      – apply-groups-exclude reference
      – radius
         – coa-port number
         – server-policy named-item
            – acct-on-off
               – apply-groups reference
               – apply-groups-exclude reference
               – oper-state-change
            – apply-groups reference
            – apply-groups-exclude reference
            – description description
            – servers
               – access-algorithm keyword
               – buffering
                  – acct-interim
                     – lifetime number
                     – max number
                     – min number
                  – acct-start
                     – lifetime number
                     – max number
                     – min number
                  – acct-stop
                     – lifetime number
                     – max number
                     – min number
               – hold-down-time number
               – ipv6-source-address ipv6-address
               – retry-count number
               – router-instance string
               – server number
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – server-name named-item
               – source-address ipv4-address
               – stickiness boolean
               – timeout number
```


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4.1.1 aaa command descriptions

aaa

Synopsis	Enter the **aaa** context
Context	**configure** aaa
Tree	aaa
Description	Commands in this context configure authentication, authorization, and accounting. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	**configure** aaa radius
Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

coa-port *number*

Synopsis	RADIUS listening port for CoA and Disconnect messages
Context	**configure** aaa radius coa-port *number*
Tree	coa-port
Description	This command configures the system-wide UDP port number that RADIUS is listening on for CoA and Disconnect messages. (none)
Range	1647 | 1700 | 1812 | 3799
Default	3799
Introduced	25.3.R2
Platforms	SAR Gen 2

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server-policy [name] *named-item*

Synopsis	Enter the **server-policy** list instance
Context	**configure** aaa radius server-policy *named-item*
Tree	server-policy
Description	Commands in this context create a RADIUS server policy. A RADIUS server policy can be used in: • radius-proxy, for applications like EAP authentication for WIFI access • authentication policy, for Enhanced Subscriber Management authentication • RADIUS accounting policy, for Enhanced Subscriber Management accounting • dynamic data service RADIUS accounting • AAA route downloader (none)
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	RADIUS server policy name
Context	**configure** aaa radius server-policy *named-item*
Tree	server-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

acct-on-off

Synopsis	Enable the **acct-on-off** context
Context	**configure** aaa radius server-policy *named-item* acct-on-off
Tree	acct-on-off
Description	Commands in this context control the sending of Accounting-On and Accounting-Off messages and the acct-on-off oper-state of the radius-server-policy:

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- **acct-on-off**: enables the sending of Accounting-On and Accounting-Off messages for this radius-server-policy. The acct-on-off oper-state is always not blocked.
- **acct-on-off oper-state-change**: enables the sending of Accounting-On and Accounting-Off messages for this radius-server-policy. The acct-on-off oper-state is function of the Accounting-response received for the Accounting-On and Accounting-Off. Optionally, sets the acct-on-off oper-state of the acct-on-off-group.
- **acct-on-off monitor**: no Accounting-On and Accounting-Off messages are sent for this radius-server-policy. The acct-on-off oper-state is inherited from the acct-on-off-group.

(none)

Introduced 25.3.R2

Platforms SAR Gen 2

oper-state-change

Synopsis Enable the **oper-state-change** context

Context **configure** aaa radius server-policy *named-item* acct-on-off oper-state-change

Tree oper-state-change

Notes The following elements are part of a choice: **monitor** or **oper-state-change**.

Introduced 25.3.R2

Platforms SAR Gen 2

description *description*

Synopsis Text description

Context **configure** aaa radius server-policy *named-item* description *description*

Tree description

String length 1 to 80

String format 'string-not-all-spaces' must contain at least one non-space character

Introduced 25.3.R2

Platforms SAR Gen 2

servers

Synopsis Enter the **servers** context

Context **configure** aaa radius server-policy *named-item* servers

Tree servers

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Description	Commands in this context configure RADIUS server policy command options.
	(none)
Introduced	25.3.R2
Platforms	SAR Gen 2

access-algorithm *keyword*

Synopsis	Algorithm to select a RADIUS server from the pool
Context	**configure** aaa radius server-policy *named-item* servers access-algorithm *keyword*
Tree	access-algorithm
Options	direct, round-robin, hash-based
Default	direct
Introduced	25.3.R2
Platforms	SAR Gen 2

buffering

Synopsis	Enter the **buffering** context
Context	**configure** aaa radius server-policy *named-item* servers buffering
Tree	buffering
Introduced	25.3.R2
Platforms	SAR Gen 2

acct-interim

Synopsis	Enable the **acct-interim** context
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-interim
Tree	acct-interim
Description	Commands in this context enable RADIUS accounting interim update message buffering.

1. The message is stored in the buffer, a lifetime timer is started and the message is sent to the RADIUS server
2. If after retry*timeout seconds no RADIUS accounting response is received for the interim update then a new attempt to send the message is started after minimum[(min-val*2n), max-val] seconds.
3. Repeat step 2 until one of the following occurs:

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- a RADIUS accounting response is received
- the lifetime of the buffered message expires
- a new RADIUS accounting interim-update or a RADIUS accounting stop for the same accounting session ID and radius-server-policy is stored in the buffer
- the message is manually purged from the message buffer via a **clear** command
- The message is purged from the buffer.

(none)

Introduced	25.3.R2
Platforms	SAR Gen 2

lifetime *number*

Synopsis	Time accounting message can be in retransmission buffer
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-interim lifetime *number*
Tree	lifetime
Range	1 to 25
Units	hours
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max *number*

Synopsis	Maximum time between accounting message resend attempts
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-interim max *number*
Tree	max
Range	1 to 3600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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min *number*

Synopsis	Minimum time between accounting message resend attempts
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-interim min *number*
Tree	min
Range	1 to 3600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

acct-start

Synopsis	Enable the **acct-start** context
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-start
Tree	acct-start
Introduced	25.3.R2
Platforms	SAR Gen 2

lifetime *number*

Synopsis	Time accounting message can be in retransmission buffer
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-start lifetime *number*
Tree	lifetime
Range	1 to 25
Units	hours
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max *number*

Synopsis	Maximum time between accounting message resend attempts

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Context	**configure** aaa radius server-policy *named-item* servers buffering acct-start max *number*
Tree	max
Range	1 to 3600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

min *number*

Synopsis	Minimum time between accounting message resend attempts
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-start min *number*
Tree	min
Range	1 to 3600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

acct-stop

Synopsis	Enable the **acct-stop** context
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-stop
Tree	acct-stop
Description	Commands in this context enable RADIUS accounting stop message buffering.

1. The message is stored in the buffer, a lifetime timer is started and the message is sent to the RADIUS server
2. If after retry*timeout seconds no RADIUS accounting response is received for the accounting stop, then a new attempt to send the message is started after minimum[(min-val*2n), max-val] seconds.
3. Repeat step 2 until one of the following occurs:

- a RADIUS accounting response is received
- the lifetime of the buffered message expires
- The message is manually purged from the message buffer via a **clear** command.
- The message is purged from the buffer.

(none)

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Introduced	25.3.R2
Platforms	SAR Gen 2

lifetime *number*

Synopsis	Time accounting message can be in retransmission buffer
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-stop lifetime *number*
Tree	lifetime
Range	1 to 25
Units	hours
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max *number*

Synopsis	Maximum time between accounting message resend attempts
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-stop max *number*
Tree	max
Range	1 to 3600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

min *number*

Synopsis	Minimum time between accounting message resend attempts
Context	**configure** aaa radius server-policy *named-item* servers buffering acct-stop min *number*
Tree	min
Range	1 to 3600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

hold-down-time *number*

Synopsis	Hold time before reusing a RADIUS server that was down
Context	**configure** aaa radius server-policy *named-item* servers hold-down-time *number*
Tree	hold-down-time
Description	This command configures the interval during which no new communication attempts are made to a RADIUS server that is marked down to prevent immediately overloading the server when it is starting up. The only exception is when all servers in the authentication policy are marked down; in that case, they will all be used again to prevent failures on new client connections. (none)
Range	30 to 86400
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-source-address *ipv6-address*

Synopsis	Source address for IPv6 RADIUS datagrams
Context	**configure** aaa radius server-policy *named-item* servers ipv6-source-address *ipv6-address*
Tree	ipv6-source-address
Description	This command configures the source address of an IPv6 RADIUS packet. When **ipv6-source-address** is unconfigured, the system IPv6 address (inband RADIUS server connection) or Boot Option File (BOF) IPv6 address (outband RADIUS server connection) must be configured in order for the RADIUS client to work with an IPv6 RADIUS server. This address is also used in the NAS-IPv6-Address attribute. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

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retry-count *number*

Synopsis	Number of retries for contacting the RADIUS server
Context	**configure** aaa radius server-policy *named-item* servers retry-count *number*
Tree	retry-count
Description	This command configures the number of times the router attempts to contact the RADIUS server, if not successful the first time. (none)
Range	1 to 256
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	RADIUS routing instance
Context	**configure** aaa radius server-policy *named-item* servers router-instance *string*
Tree	router-instance
Description	This command specifies the virtual router instance applicable for the set of configured RADIUS servers. This value cannot be changed once a RADIUS server is configured for this policy. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

server [server-index] *number*

Synopsis	Enter the **server** list instance
Context	**configure** aaa radius server-policy *named-item* servers server *number*
Tree	server
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**server-index**] *number*

Synopsis	RADIUS server index
Context	**configure** aaa radius server-policy *named-item* servers server *number*
Tree	server
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-name *named-item*

Synopsis	RADIUS server name
Context	**configure** aaa radius server-policy *named-item* servers server *number* server-name *named-item*
Tree	server-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *ipv4-address*

Synopsis	Source address of RADIUS messages
Context	**configure** aaa radius server-policy *named-item* servers source-address *ipv4-address*
Tree	source-address
Description	This command configures the source address of the RADIUS packet. The system IP address must be configured in order for the RADIUS client to work. The system IP address must only be configured if the source-address is not specified. When the no **source-address** command is executed, the source address is determined at the moment the request is sent. This address is also used in the NAS-IP-Address attribute; over there it is set to the system IP address if no source-address was given. (none)
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Introduced	25.3.R2
Platforms	SAR Gen 2

stickiness *boolean*

Synopsis	Allow stickiness in a multi-server application
Context	**configure** aaa radius server-policy *named-item* servers stickiness *boolean*
Tree	stickiness
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time until the next retry to the RADIUS server
Context	**configure** aaa radius server-policy *named-item* servers timeout *number*
Tree	timeout
Range	1 to 340
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.2 bfd commands

```
configure
   – bfd
      – apply-groups reference
      – apply-groups-exclude reference
      – bfd-template named-item
         – apply-groups reference
         – apply-groups-exclude reference
         – echo-receive number
         – multiplier number
         – receive-interval number
         – transmit-interval number
```


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4.2.1 bfd command descriptions

bfd

Synopsis	Enter the **bfd** context
Context	**configure** bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-template [name] *named-item*

Synopsis	Enter the **bfd-template** list instance
Context	**configure** bfd bfd-template *named-item*
Tree	bfd-template
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	BFD template name
Context	**configure** bfd bfd-template *named-item*
Tree	bfd-template
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Echo receive interval
Context	**configure** bfd bfd-template *named-item* echo-receive *number*
Tree	echo-receive
Range	100 to 100000

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Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Detection multiplier
Context	**configure** bfd bfd-template *named-item* multiplier *number*
Tree	multiplier
Range	1 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive-interval *number*

Synopsis	Receive interval
Context	**configure** bfd bfd-template *named-item* receive-interval *number*
Tree	receive-interval
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	Transmit interval
Context	**configure** bfd bfd-template *named-item* transmit-interval *number*
Tree	transmit-interval
Range	10 to 100000
Units	milliseconds
Default	100

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Introduced	25.3.R2
Platforms	SAR Gen 2

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4.3 bof commands

```
bof
   - auto-boot
      - dhcp
         - client-id (keyword | hex-string | string)
         - inband
            - disabled boolean
            - null-encapsulation boolean
            - vlan number
            - vlan-discovery boolean
         - include-user-class boolean
         - ipv4 boolean
         - ipv6 boolean
         - management-port boolean
      - ospf
         - mtu number
         - neid hex-string
         - neip-ipv4 ipv4-unicast-address
         - neip-ipv6 ipv6-address
         - vendor-id number
      - port-mtu number
      - timeout number
   - auto-configure
      - ipv4
         - dhcp
            - client-id (hex-string | string)
            - include-user-class boolean
            - timeout number
      - ipv6
         - dhcp
            - client-id (hex-string | string)
            - client-type keyword
            - include-user-class boolean
            - timeout number
   - configuration
      - encrypt boolean
      - encryption-key bof-static-encrypted-leaf
      - password hashed-leaf
      - primary-location bof-cflash-and-url
      - secondary-location bof-cflash-and-url
      - tertiary-location bof-cflash-and-url
   - console
      - speed number
      - wait-time number
   - dns
      - domain string
      - primary-server (ipv4-address-no-zone | ipv6-address-no-zone)
      - secondary-server (ipv4-address-no-zone | ipv6-address-no-zone)
      - tertiary-server (ipv4-address-no-zone | ipv6-address-no-zone)
   - image
      - primary-location bof-cflash-and-url
      - secondary-location bof-cflash-and-url
      - tertiary-location bof-cflash-and-url
   - license
      - primary-location bof-cflash-and-url
   - port named-item-64
      - autonegotiate keyword
      - duplex keyword
      - speed number
   - router named-item-64
```


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bof router interface

```
      - interface interface-name
        - cpm keyword
          - ipv4
            - ip-address ipv4-unicast-address
            - prefix-length number
          - ipv6
            - ipv6-address ipv6-address
            - prefix-length number
        - ip-mtu number
      - static-routes
        - route (ipv4-prefix | ipv6-prefix)
          - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
  - system
      - base-mac-address mac-unicast-address
      - persistent-indices boolean
      - profile keyword
```


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4.3.1 bof command descriptions

bof

Synopsis	Configure system boot options
Context	bof
Tree	bof
Description	This command creates or edits the boot option file (BOF) for the specified local storage device. A BOF file specifies where the system searches for runtime images, configuration files, and other operational parameters during system initialization. BOF parameters can be modified. Changes can be saved to a specified compact flash. The BOF must be located in the root directory of either an internal or external compact flash local to the system and have the mandatory filename of bof.cfg. When modifications are made to in-memory parameters that are currently in use or operating, the changes are effective immediately. For example, if the IP address of the management port is changed, the change takes place immediately. Only one entry of the BOF configuration command statement can be saved once the statement has been found to be syntactically correct. When opening an existing BOF that is not the BOF used in the most recent boot, a message is issued notifying the user that the parameters will not affect the operation of the node. No default boot option file exists. The router boots with the factory default boot sequence and options.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-boot

Note:
The new value of this element takes effect when the router boots.

Synopsis	Enable the **auto-boot** context
Context	bof auto-boot
Tree	auto-boot
Description	Commands in this context enable the **auto-boot** flag in the BOF and configures the **auto-boot** options for ZTP. When modifying **auto-boot** options using CLI, all required options must be explicitly configured as the default cases will no longer be used. (none)

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Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Note:
The new value of this element takes effect when the router boots.

Synopsis	Enable the **dhcp** context
Context	bof auto-boot dhcp
Tree	dhcp
Description	Commands in this context configure the IPv4 DHCP client for OOB management. The OOB management IPv4 can be set using a DHCP server offer. (none)
Notes	The following elements are part of a choice: **dhcp** or **ospf**.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-id *(keyword | hex-string | string)*

Note:
The new value of this element takes effect when the router boots.

Synopsis	DHCP client ID
Context	bof auto-boot dhcp client-id *(keyword | hex-string | string)*
Tree	client-id
Description	This command specifies the client ID for IPv4 Option 61 for auto-discovery. The identifier is opaque and is in string format. By default, this is the chassis serial number. (none)
String length	3 to 118 (*hex-string*) 1 to 58 (*string*)
Options	use-chassis-mac-address
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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inband

Note:
The new value of this element takes effect when the router boots.

Synopsis	Enable the **inband** context
Context	bof auto-boot dhcp inband
Tree	inband
Description	Commands in this context enable in-band management through an Ethernet port for ZTP. Unless the **vlan-discovery** command is used, the **inband** command disables VLAN discovery. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

disabled *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Do not use in-band ports
Context	bof auto-boot dhcp inband disabled *boolean*
Tree	disabled
Default	true
Notes	The following elements are part of a choice: **disabled**, **null-encapsulation**, **vlan**, or **vlan-discovery**.
Introduced	25.3.R2
Platforms	SAR Gen 2

null-encapsulation *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Use null encapsulation
Context	bof auto-boot dhcp inband null-encapsulation *boolean*
Tree	null-encapsulation

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Default	true
Notes	The following elements are part of a choice: **disabled**, **null-encapsulation**, **vlan**, or **vlan-discovery**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan *number*

Note:
The new value of this element takes effect when the router boots.

Synopsis	In-band VLAN ID
Context	bof auto-boot dhcp inband vlan *number*
Tree	vlan
Range	1 to 4094
Notes	The following elements are part of a choice: **disabled**, **null-encapsulation**, **vlan**, or **vlan-discovery**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-discovery *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Use VLAN discovery
Context	bof auto-boot dhcp inband vlan-discovery *boolean*
Tree	vlan-discovery
Default	true
Notes	The following elements are part of a choice: **disabled**, **null-encapsulation**, **vlan**, or **vlan-discovery**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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include-user-class *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Include user class in auto boot provisioning
Context	bof auto-boot dhcp include-user-class *boolean*
Tree	include-user-class
Description	When configured to **true**, the router includes Option 77 in DHCP messages. (none)
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Use auto boot with IPv4
Context	bof auto-boot dhcp ipv4 *boolean*
Tree	ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Use auto boot with IPv6
Context	bof auto-boot dhcp ipv6 *boolean*
Tree	ipv6
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

management-port *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Use auto boot on the management port
Context	bof auto-boot dhcp management-port *boolean*
Tree	management-port
Description	When configured to **true**, the out-of-band management port is used for ZTP. (none)
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf

Note:
The new value of this element takes effect when the router boots.

Synopsis	Enable the **ospf** context
Context	bof auto-boot ospf
Tree	ospf
Description	Commands in this context configure OSPF auto-discovery. (none)
Notes	The following elements are part of a choice: **dhcp** or **ospf**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Note:
The new value of this element takes effect when the router boots.

Synopsis	OSPF MTU

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Context	bof auto-boot ospf mtu *number*
Tree	mtu
Range	512 to 9786
Units	bytes
Default	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

neid *hex-string*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Network element ID
Context	bof auto-boot ospf neid *hex-string*
Tree	neid
Description	This command specifies a hexadecimal network element identification string. (none)
String length	3
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

neip-ipv4 *ipv4-unicast-address*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Network element IPv4 address
Context	bof auto-boot ospf neip-ipv4 *ipv4-unicast-address*
Tree	neip-ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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neip-ipv6 *ipv6-address*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Network element IPv6 address
Context	bof auto-boot ospf neip-ipv6 *ipv6-address*
Tree	neip-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-id *number*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Vendor ID
Context	bof auto-boot ospf vendor-id *number*
Tree	vendor-id
Description	This command specifies the vendor identification number. The number 140 corresponds to "Nokia". (none)
Range	1 to 254
Default	140
Introduced	25.3.R2
Platforms	SAR Gen 2

port-mtu *number*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Port MTU setting
Context	bof auto-boot port-mtu *number*
Tree	port-mtu
Range	512 to 9800
Units	bytes

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Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Note:
The new value of this element takes effect when the router boots.

Synopsis	ZTP timeout
Context	bof auto-boot timeout *number*
Tree	timeout
Description	This command configures the Zero Touch Provisioning timeout, which is the total time allowed for the ZTP process to execute successfully. If the ZTP process is unsuccessful (in the case of auto-boot using OSPF, if no OSPF adjacency is found), the node is first rebooted, then the ZTP process is retried.
Range	30 to 1440
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-configure

Synopsis	Enter the **auto-configure** context
Context	bof auto-configure
Tree	auto-configure
Description	Commands in this context autoconfigure the IP address for the BOF. The IPv4 DHCP client, IPv6 DHCP client, and NDP/RA can be configured on the management interface. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	bof auto-configure ipv4
Tree	ipv4
Description	Commands in this context autoconfigure the IPv4 DHCP client.

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	(none)
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Note:
The new value of this element takes effect when the router boots.

Synopsis	Enable the **dhcp** context
Context	bof auto-configure ipv4 dhcp
Tree	dhcp
Description	Commands in this context configure the IPv4 DHCP client for OOB management. The OOB management IPv4 can be set using a DHCP server offer. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

client-id *(hex-string | string)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	DHCP client ID
Context	bof auto-configure ipv4 dhcp client-id *(hex-string | string)*
Tree	client-id
Description	This command configures the client ID for IPv4 Option 61 for auto-discovery. The identifier is opaque and is in string format. By default, this is the chassis serial number. (none)
String length	3 to 256 (*hex-string*) 1 to 127 (*string*)
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2

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Platforms	SAR Gen 2

include-user-class *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	Include user class information
Context	bof auto-configure ipv4 dhcp include-user-class *boolean*
Tree	include-user-class
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	DHCP timeout
Context	bof auto-configure ipv4 dhcp timeout *number*
Tree	timeout
Range	1 to 65535
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context

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Context	bof auto-configure ipv6
Tree	ipv6
Description	Commands in this context autoconfigure the IPv6 DHCP client. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Note:
The new value of this element takes effect when the router boots.

Synopsis	Enable the **dhcp** context
Context	bof auto-configure ipv6 dhcp
Tree	dhcp
Description	Commands in this context configure the IPv6 DHCP client for OOB management. The OOB management IPv6 can be set using a DHCP server offer. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

client-id *(hex-string | string)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	DHCP client ID
Context	bof auto-configure ipv6 dhcp client-id *(hex-string | string)*
Tree	client-id
Description	This command specifies the client ID for IPv6 DHCP Option 1 to include for auto-discovery. The identifier is opaque and is in string format. By default, this is the chassis serial number. (none)

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String length	3 to 250 (*hex-string*) 1 to 124 (*string*)
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

client-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	Type code of the server DUID
Context	bof auto-configure ipv6 dhcp client-type *keyword*
Tree	client-type
Options	duid-enterprise, duid-link-local
Introduced	25.3.R2
Platforms	SAR Gen 2

include-user-class *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	Include user class information
Context	bof auto-configure ipv6 dhcp include-user-class *boolean*
Tree	include-user-class
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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timeout *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the router boots.

Synopsis	DHCP timeout
Context	bof auto-configure ipv6 dhcp timeout *number*
Tree	timeout
Range	1 to 65535
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

configuration

Synopsis	Enter the **configuration** context
Context	bof configuration
Tree	configuration
Introduced	25.3.R2
Platforms	SAR Gen 2

encrypt *boolean*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enable encryption of BOF configuration files
Context	bof configuration encrypt *boolean*
Tree	encrypt
Description	When configured to **true**, this command enables encryption of the BOF using AES256 and SHA256. When the BOF is encrypted on the compact flash, it is still reachable using the BOF interactive menu during node startup, and fields can be modified using the BOF interactive menu.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-key *bof-static-encrypted-leaf*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Secret key for encryption of configuration files
Context	bof configuration encryption-key *bof-static-encrypted-leaf*
Tree	encryption-key
Description	This command creates a key to be used for AES256 encryption of the configuration file. This key is used for all configuration files (primary, secondary, and tertiary). After creating or deleting a key, save the configuration file so that it is encrypted with the latest key. The output of the encryption key is always in a protected format. Plaintext keys must be 8 to 32 characters in length.
String length	1 to 126
Introduced	25.3.R2
Platforms	SAR Gen 2

password *hashed-leaf*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Password for boot-time modification of boot options
Context	bof configuration password *hashed-leaf*
Tree	password
Description	This command configures the password to access the BOF interactive menu at startup. If a password is configured, the BOF interactive menu is accessible only when the correct password is entered. If the correct password is not entered in 30 seconds, the node reboots. The output of the password is always in a protected format. This command accepts a cleartext format of 8 to 32 characters or a protected pbkdf2-sha3-512 format.

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String length	8 to 136
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Primary configuration location
Context	bof configuration primary-location *bof-cflash-and-url*
Tree	primary-location
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Secondary configuration location
Context	bof configuration secondary-location *bof-cflash-and-url*
Tree	secondary-location
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

tertiary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Tertiary configuration location
Context	bof configuration tertiary-location *bof-cflash-and-url*
Tree	tertiary-location

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Description	This command specifies the name and location of the tertiary configuration file. The system attempts to use the configuration specified in **tertiary-location** if both the primary and secondary configuration files cannot be located. If this file cannot be located, the system boots with the factory default configuration. Note that if an error in the configuration file is encountered, the boot process aborts. (none)
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

console

Synopsis	Enter the **console** context
Context	bof console
Tree	console
Introduced	25.3.R2
Platforms	SAR Gen 2

speed *number*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Console port speed
Context	bof console speed *number*
Tree	speed
Description	This command configures the console port baud rate. When this command is issued while editing the BOF file used for the most recent boot, both the BOF file and the active configuration are changed immediately. (none)
Range	9600 | 19200 | 38400 | 57600 | 115200
Units	bps
Default	115200
Introduced	25.3.R2
Platforms	SAR Gen 2

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wait-time *number*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Wait time for interrupt to change boot parameters
Context	bof console wait-time *number*
Tree	wait-time
Range	1 to 10
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

dns

Synopsis	Enter the **dns** context
Context	bof dns
Tree	dns
Introduced	25.3.R2
Platforms	SAR Gen 2

domain *string*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	System DNS domain name for DNS address resolution
Context	bof dns domain *string*
Tree	domain
String length	1 to 178
Introduced	25.3.R2
Platforms	SAR Gen 2

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primary-server *(ipv4-address-no-zone | ipv6-address-no-zone)*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Primary DNS server
Context	bof dns primary-server *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	primary-server
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-server *(ipv4-address-no-zone | ipv6-address-no-zone)*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Secondary DNS server
Context	bof dns secondary-server *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	secondary-server
Introduced	25.3.R2
Platforms	SAR Gen 2

tertiary-server *(ipv4-address-no-zone | ipv6-address-no-zone)*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Tertiary DNS server
Context	bof dns tertiary-server *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	tertiary-server
Description	This command configures the tertiary DNS server for DNS name resolution. The tertiary DNS server is used only if the primary DNS server and the secondary DNS server do not respond. DNS name resolution can be used when executing ping, traceroute, and service-ping, and also when defining file URLs. DNS name resolution is not supported when DNS names are embedded in configuration files. (none)
Introduced	25.3.R2

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Platforms	SAR Gen 2

image

Synopsis	Enter the **image** context
Context	bof image
Tree	image
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Primary image location
Context	bof image primary-location *bof-cflash-and-url*
Tree	primary-location
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Secondary image location
Context	bof image secondary-location *bof-cflash-and-url*
Tree	secondary-location
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

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tertiary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Tertiary image location
Context	bof image tertiary-location *bof-cflash-and-url*
Tree	tertiary-location
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

license

Synopsis	Enter the **license** context
Context	bof license
Tree	license
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-location *bof-cflash-and-url*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Primary license file location
Context	bof license primary-location *bof-cflash-and-url*
Tree	primary-location
String length	1 to 199
Introduced	25.3.R2
Platforms	SAR Gen 2

port [router-name] *named-item-64*

Note:
The new value of this element takes effect when the candidate is committed.

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Synopsis	Enter the **port** list instance
Context	bof port *named-item-64*
Tree	port
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-name**] *named-item-64*

Synopsis	Administrative router name
Context	bof port *named-item-64*
Tree	port
String length	1 to 64
MD-CLI default	management
String format	'string-not-all-spaces' must contain at least one non-space character 'router-name' must be 'management'
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

autonegotiate *keyword*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Auto-negotiate speed and duplex type on Ethernet port
Context	bof port *named-item-64* autonegotiate *keyword*
Tree	autonegotiate
Options	false, true
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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duplex *keyword*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Duplex type for the Ethernet port
Context	bof port *named-item-64* duplex *keyword*
Tree	duplex
Options	full, half
Default	full
Introduced	25.3.R2
Platforms	SAR Gen 2

speed *number*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Speed of the Ethernet port
Context	bof port *named-item-64* speed *number*
Tree	speed
Range	10 | 100 | 1000
Units	megabps
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

router [router-name] *named-item-64*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enter the **router** list instance
Context	bof router *named-item-64*
Tree	router
Description	This command creates a router instance which represents a virtual router in the system. There will always be at least two instances in the system. The Base or transport router

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	and the management router are created when the system is initialized and cannot be deleted.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-name**] *named-item-64*

Synopsis	Administrative router name
Context	bof router *named-item-64*
Tree	router
String length	1 to 64
MD-CLI default	management
String format	'string-not-all-spaces' must contain at least one non-space character 'router-name' must be 'management'
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enter the **interface** list instance
Context	bof router *named-item-64* interface *interface-name*
Tree	interface
Description	Commands in this context create a logical IP routing or unnumbered MPLS-TP interface. Once created, an IP address, port, or system can be associated with the IP interface.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	bof router *named-item-64* interface *interface-name*
Tree	interface
String length	1 to 32
MD-CLI default	management
String format	'interface-name' must be 'management'
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cpm [cpm-type] *keyword*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enter the **cpm** list instance
Context	bof router *named-item-64* interface *interface-name* cpm *keyword*
Tree	cpm
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cpm-type**] *keyword*

Synopsis	CPM type
Context	bof router *named-item-64* interface *interface-name* cpm *keyword*
Tree	cpm
Options	active, standby, a, b, c, d
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enable the **ipv4** context
Context	bof router *named-item-64* interface *interface-name* cpm *keyword* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-unicast-address*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	IPv4 address assigned to the interface
Context	bof router *named-item-64* interface *interface-name* cpm *keyword* ipv4 ip-address *ipv4-unicast-address*
Tree	ip-address
Description	This command assigns an IP address to the management Ethernet port on a CPM. The active and standby IP addresses mut be on the same subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	IPv4 address prefix length
Context	bof router *named-item-64* interface *interface-name* cpm *keyword* ipv4 prefix-length *number*
Tree	prefix-length

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Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enable the **ipv6** context
Context	bof router *named-item-64* interface *interface-name* cpm *keyword* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-address *ipv6-address*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	IPv6 address assigned to the interface
Context	bof router *named-item-64* interface *interface-name* cpm *keyword* ipv6 ipv6-address *ipv6-address*
Tree	ipv6-address
Description	This command assigns an IP address to the management Ethernet port on a CPM. The active and standby IP addresses mut be on the same subnet.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	IPv6 address prefix length

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Context	bof router *named-item-64* interface *interface-name* cpm *keyword* ipv6 prefix-length *number*
Tree	prefix-length
Range	0 to 128
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Interface IP MTU
Context	bof router *named-item-64* interface *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command configures the MTU for IP packets transmitted out the interface of the management router instance associated to the management port. The operational MTU for the port is set to the lesser of the values configured with this command and the management port MTU. If the interface supports IPv6 packets, the command value must be set to 1280 or higher.
Range	512 to 9786
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

static-routes

Synopsis	Enter the **static-routes** context
Context	bof router *named-item-64* static-routes
Tree	static-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

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route [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Enter the **route** list instance
Context	bof router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)*
Tree	route
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for the static route
Context	bof router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)*
Tree	route
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Note:
The new value of this element takes effect when the candidate is committed.

Synopsis	Next-hop IP address
Context	bof router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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system

Synopsis	Enter the **system** context
Context	bof system
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

base-mac-address *mac-unicast-address*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Base system MAC address
Context	bof system base-mac-address *mac-unicast-address*
Tree	base-mac-address
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

persistent-indices *boolean*

Note:
The new value of this element takes effect when the router boots.

Synopsis	Classic and mixed management mode persistent indices
Context	bof system persistent-indices *boolean*
Tree	persistent-indices
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Note:
The new value of this element takes effect when the router boots.

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Synopsis	System capabilities profile
Context	bof system profile *keyword*
Tree	profile
Options	profile-a, profile-b
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.4 card commands

```
configure
   – card number
      – admin-state keyword
      – apply-groups reference
      – apply-groups-exclude reference
      – card-type keyword
      – fail-on-error boolean
      – fp number
         – apply-groups reference
         – apply-groups-exclude reference
         – egress
         – ingress
            – access
               – queue-group reference instance-id number
                  – accounting-policy reference
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – collect-stats boolean
                  – description description
                  – policer-control-policy
                     – overrides
                        – apply-groups reference
                        – apply-groups-exclude reference
                        – max-rate (number | keyword)
                        – priority-mbs-thresholds
                           – min-threshold-separation (number | keyword)
                           – priority number
                              – apply-groups reference
                              – apply-groups-exclude reference
                              – mbs-contribution (number | keyword)
                     – policy-name reference
               – policer-overrides
                  – policer reference
                     – apply-groups reference
                     – apply-groups-exclude reference
                     – cbs (number | keyword)
                     – mbs (number | keyword)
                     – packet-byte-offset number
                     – rate
                        – cir (number | keyword)
                        – pir (number | keyword)
                     – stat-mode keyword
            – dist-cpu-protection
               – dynamic-enforcement-policer-pool number
            – network
               – pool named-item
                  – apply-groups reference
                  – apply-groups-exclude reference
               – queue-group reference instance-id number
                  – accounting-policy reference
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – collect-stats boolean
                  – description description
                  – policer-control-policy
                     – overrides
                        – apply-groups reference
                        – apply-groups-exclude reference
                        – max-rate (number | keyword)
```


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configure card fp ingress network queue-group policer-control-policy overrides priority-mbs-thresholds

```
                        - priority-mbs-thresholds
                           - min-threshold-separation (number | keyword)
                           - priority number
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - mbs-contribution (number | keyword)
                     - policy-name reference
                  - policer-overrides
                     - policer reference
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - mbs (number | keyword)
                        - packet-byte-offset number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                        - stat-mode keyword
            - queue-policy reference
      - init-extract-prio-mode keyword
   - mda number
      - access
         - apply-groups reference
         - apply-groups-exclude reference
         - egress
            - apply-groups reference
            - apply-groups-exclude reference
         - ingress
            - apply-groups reference
            - apply-groups-exclude reference
      - admin-state keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - event keyword
         - action keyword
         - apply-groups reference
         - apply-groups-exclude reference
      - fail-on-error boolean
      - ingress
         - pre-classifier
            - dot1p-for-untagged-traffic number
            - policy-name reference
      - mda-type keyword
      - network
         - apply-groups reference
         - apply-groups-exclude reference
         - egress
            - apply-groups reference
            - apply-groups-exclude reference
         - ingress
            - apply-groups reference
            - apply-groups-exclude reference
      - sync-e keyword
```


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4.4.1 card command descriptions

card [slot-number] *number*

Synopsis	Enter the **card** list instance
Context	**configure** card *number*
Tree	card
Description	Commands in this context cover attributes for specific chassis slots for physical cards. On 7705 SAR Gen 2 platforms, the card is provisioned permanently and cannot be modified or removed. See the *7705 SAR Gen 2 Interface Configuration Guide* for more information.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**slot-number**] *number*

Synopsis	Slot number within the chassis
Context	**configure** card *number*
Tree	card
Description	This command configures a unique value that identifies the card slot within a chassis in the system.
Range	1 to 20
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the card
Context	**configure** card *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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card-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis Card type

Context **configure** card *number* card-type *keyword*

Tree card-type

Description This command adds an IOM, IMM, XCM to the device configuration for the slot.

The card type can be pre-provisioned, meaning that the card does not need to be installed in the chassis.

A card must be provisioned before any contained object can be configured: MDA, XIOM, XMA, MDA-s, connector, or port. A card can only be provisioned in a slot if the card type is allowed in the slot. An error message is generated if an attempt is made to provision a card type that is not allowed.

If a card is inserted that does not match the configured card type for the slot, a log event and facility alarm is raised. The alarm is cleared when the correct card type is installed or the configuration is modified. A log event and facility alarm are raised if an administratively enabled card is removed from the chassis. The alarm is cleared when the correct card type is installed or the configuration is modified. A log event is issued when a card is removed that is administratively disabled.

Because IMMs do not have the capability to install separate MDAs, the configuration of the MDAs is automatic. This configuration only includes the default options such as default buffer policies. Commands to manage the MDA remain in the MDA configuration context.

Some card hardware can support two different firmware loads. One load includes the base Ethernet functionality, including 10G WAN mode, but does not include 1588 port-based timestamping. The second load includes the base Ethernet functionality and 1588 port-based timestamping, but does not include 10G WAN mode. These are identified as two card types that are the same, except for a "-ptp" suffix to indicate the second loadset. A hard reset of the card occurs when switching between the two provisioned types.

An appropriate alarm is raised if a partial or complete card failure is detected. The alarm is cleared when the error condition ceases.

On 7705 SAR Gen 2 platforms, the card is provisioned permanently and cannot be modified or removed. See the *7705 SAR Gen 2 Interface Configuration Guide* for more information.

Options xcm-x20, imm40-10gb-sfp, iom4-e, iom-a, imm-2pac-fp3, iom4-e-hs, imm4-100gb-cfp4, iom-e, iom-v, iom4-e-b, iom-sar-hm, xcm2-x20, iom-1, xcm-14s, imm40-10gb-sfp-ptp, iom-ixr-r6, imm36-100g-qsfp28, imm48-sfp+2-qsfp28, iom5-e, xcm-7s, imm48-sfp++6-qsfp28, xcm-1s, xcm-2s, imm24-sfp++8-sfp28+2-qsfp28, iom-sar-hmc, imm14-10g-sfp++4-1g-tx, iom-ixr-r4, imm6-qsfpdd+48-sfp56, imm32-qsfp28+4-qsfpdd, i48-800g-qsfpdd-1x, imm36-qsfpdd, imm4-1g-tx+20-1g-sfp+6-10g-sfp+, iom-ixr-r6d,

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xcm2-7s, i24-800g-qsfpdd-1, imm36-800g-qsfpdd, xcm2-14s, i48-400g-qsfpdd-1, i80-200g-sfpdd+12-400g-qsfpdd-1, i40-200g-sfpdd+6-800g-qsfpdd-1, i80-200g-sfpdd+12-800g-qsfpdd-1x, xcm-2se, xcm-14s-b, xcm-7s-b, imm2-qsfpdd+2-qsfp28+24-sfp28, xcmc-2se, imm12-sfp28+2-qsfp28, dms24-800g-qsfpdd-1, imm16-sfp112+15-sfp56+6-qsfpdd, iom-sar, imm4-qsfp28+16-sfp28+8-sfp56, iom-sar-1x, imm4-sfp+4-sfp+, imm4-sfp+4-sfp+-s, imm16-sfp++4-sfp28

Introduced 25.3.R2

Platforms SAR Gen 2

fail-on-error *boolean*

Synopsis Set operational state of the card to Failed upon error

Context **configure** card *number* fail-on-error *boolean*

Tree fail-on-error

Description When configured to **true**, this command controls the behavior of the card when any one of a specific set of card level errors is encountered in the system.

When this command is set to **true**, and any one (or more) of the specific errors is detected, the operational state of the card is set to failed. This failed state persists until the **clear card** command is issued (reset) or the card is removed and reinserted (reseated). If the condition persists after reseating the card, contact Nokia support to investigate more.

Nokia only recommends configuring this command to **true** when the network is designed to be able to route traffic around a failed card (redundant cards, nodes, or other paths exist).

The list of specific errors includes the following:

CHASSIS event ID# 2063 - tmnxEqCardPChipMemoryEvent

CHASSIS event ID# 2076 - tmnxEqCardPChipCamEvent

CHASSIS event ID# 2059 - tmnxEqCardPChipError (for ingress Ethernet only)

CHASSIS event ID# 2098 - tmnxEqCardQChipBufMemoryEvent

CHASSIS event ID# 2099 - tmnxEqCardQChipStatsMemoryEvent

CHASSIS event ID# 2101 - tmnxEqCardQChipIntMemoryEvent

CHASSIS event ID# 2103 - tmnxEqCardChipIfCellEvent

On platforms with integrated CPM and IOM, IMM, or XCM, the node is rebooted if this command is set to **true** and one of the card level errors is encountered. The tmnx EqCardPChipError is only considered as a trigger for this command for ingress FCS errors (not egress FCS errors).

Note: On the detection of the event or error in the system, the reporting of the event (logs) and the fail-on-error behavior of the card are independent. Log event control configuration determines whether the events are reported in logs (or SNMP traps, and so on) and the fail-on-error configuration determines the behavior of the card. This implies that the card can be configured to fail-on-error even if the events are suppressed

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(some may be suppressed in the system by default). To facilitate post-failure analysis, Nokia recommends reporting the specific events or errors and that **configure log log-events** be enabled when this command is set to **true**.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fp [fp-number] *number*

Synopsis	Enter the **fp** list instance
Context	**configure** card *number* fp *number*
Tree	fp
Description	Commands in this context configure forwarding plane (FP) specific options on the card.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**fp-number**] *number*

Synopsis	Forwarding plane within the card
Context	**configure** card *number* fp *number*
Tree	fp
Range	1 to 12
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** card *number* fp *number* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

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ingress

Synopsis	Enter the **ingress** context
Context	**configure** card *number* fp *number* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

access

Synopsis	Enter the **access** context
Context	**configure** card *number* fp *number* ingress access
Tree	access
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [queue-group-name] *reference* instance-id *number*

Synopsis	Enter the **queue-group** list instance
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number*
Tree	queue-group
Description	Commands in this context create a named queue group template on the ingress forwarding plane of an IOM or IMM.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-group-name**] *reference*

Synopsis	Queue group name
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number*
Tree	queue-group
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance-id *number*

Synopsis	Instance ID
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number*
Tree	queue-group
Range	1 to 65535
MD-CLI default	1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy for the FP ingress queue group
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* accounting-policy *reference*
Tree	accounting-policy
Description	This command configures an accounting policy for the FP ingress queue group. You can only apply accounting policies associated with service billing to SAPs. Only associate the accounting policy with one interface at a time.
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect statistics on FP ingress queue group
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* collect-stats *boolean*
Tree	collect-stats
Description	When configured to **true**, the system collects accounting and statistical data for the queue group on the FP.

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When configured to **false**, the system still accumulates the statistics; however, the CPU does not obtain the results and write them to the billing file.

If this command is set to **true** (after it had previously been set to **false**), the counters written to the billing file include the traffic collected when the command was set to **false**.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-rate *(number | keyword)*

Synopsis	Maximum rate override
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides max-rate *(number | keyword)*
Tree	max-rate
Description	This command defines the PIR leaky bucket decrement rate of the parent policer. Each time you apply the policer control policy to a SAP or subscriber instance a parent policer is created. Packets not discarded by the child policer associated with the SAP or subscriber instance are evaluated against the leaky bucket of the parent policer. For each packet, the system first decrements the bucket by the correct amount based on the decrement rate to derive the current bucket depth. The system compares the current depth to one of two discard thresholds associated with the packet. The first discard threshold is applied if the Fair Information Rate (FIR) leaky bucket of the child policer is in the confirming state. The second discard threshold is applied if the FIR leaky bucket of the child policer is in the exceed state. Only one of the two thresholds is applied per packet. If the current depth of the parent policer PIR bucket is less than the threshold value, the parent PIR bucket is in the conform state for that particular packet. If the depth is equal to or greater than the applied threshold, the bucket is in the violate state for the packet. If the result is conform, the bucket depth is increased by the size of the packet (plus or minus the per-packet offset setting in the child policer) and the parent policer does not discard the packet. If the result is violate, the bucket depth is not increased and the parent policer discards the packet. When the parent policer discards a packet, the bucket depth increases (PIR, CIR, and FIR) in the parent policer are canceled. This prevents packets that the parent policer discards from consuming the PIR, CIR, and FIR bandwidth of the child policers.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds
Tree	priority-mbs-thresholds
Description	Commands in this context configure the derivative for the shared portion and fair portion for each priority level.

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The system uses the shared portion and fair portion values to calculate the discard-unfair and discard-all MBS thresholds that enforce priority-sensitive rate-based discards within the root arbiter parent policer.

Introduced 25.3.R2

Platforms SAR Gen 2

min-threshold-separation *(number | keyword)*

Synopsis Minimum separation between any two active thresholds

Context **configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds min-threshold-separation *(number | keyword)*

Tree min-threshold-separation

Description This command configures the minimum separation between any two active thresholds in the parent policer.

Range 0 to 16777216

Units bytes

Options auto

Introduced 25.3.R2

Platforms SAR Gen 2

priority [level] *number*

Synopsis Enter the **priority** list instance

Context **configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds priority *number*

Tree priority

Introduced 25.3.R2

Platforms SAR Gen 2

[**level**] *number*

Synopsis Priority level, higher number is stricter

Context **configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds priority *number*

Tree priority

Range 1 to 8

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	MBS contribution size override
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Description	This command specifies the packet burst capacity required at the parent policer for a specified priority level with at least one child, and where the total capacity also includes the capacity of all lower thresholds.
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-overrides

Synopsis	Enter the **policer-overrides** context
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides
Tree	policer-overrides

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Description	Commands in this context configure specific overrides to one or more policers created on the SAP through SAP ingress QoS policies.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference*
Tree	policer
Description	Commands in this context create, modify, or delete a policer. Policers are created and used in a similar manner to queues. Unlike queues that have dedicated counters, policers allow various stat-mode settings that define the counters to be associated with the policer. Packet byte offset provides a policer with the ability to modify the size of each packet based on a defined number of bytes. All policers must be created within the QoS policies. After a policer is created, it cannot be deleted from the QoS policy unless all forwarding classes mapped to the policer are first moved to other policers or queues. The system allows a policer to be created on a SAP QoS policy regardless of the ability to support policers on objects where the policy is currently applied. The system only scans the current objects for policer support and sufficient resources to create the policer when a forwarding class is first mapped to the policer ID. If the policer cannot be created because one or more instances of the policy do not support policing or have insufficient resources to create the policer, the forwarding class mapping fails.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer ID
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference*
Tree	policer
Reference	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cbs *(number | keyword)*

Synopsis	CBS tolerance allowed by the policer
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Description	This command configures the CIR leaky bucket exceed threshold of the policer. If the forwarding rate of the policer is equal to or less than the defined CIR, the CIR bucket depth hovers around the 0 depth, with spikes up to the maximum packet size in the offered load. If the forwarding rate increases beyond the profiling rate, the threshold caps the amount of data allowed to be in-profile above the rate.
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum burst tolerance allowed by the policer
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Description	This command configures the PIR leaky bucket violate threshold of the policer. Ingress, trusted in-profile packets and untrusted high priority packets use the high priority violate threshold and trusted out-of-profile. Untrusted low priority packets use the low priority violate threshold. If the offered rate of the policer is equal to or less than the defined rate, the PIR bucket depth hovers around the 0 depth, with spikes up to the maximum packet size in the offered load. If the offered rate increases beyond the metering rate, the threshold caps the amount of data allowed above the rate. The low priority violate threshold provides a smaller burst size for the lower priority traffic associated with the policer. Because all lower priority traffic is discarded at the lower burst tolerance size, the remaining burst tolerance is available for higher priority traffic.
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2

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Platforms SAR Gen 2

packet-byte-offset *number*

Synopsis Packet size adjustment

Context **configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* packet-byte-offset *number*

Tree packet-byte-offset

Description This command modifies the size of each packet handled by the policer by adding or subtracting a number of bytes. The actual packet size is not modified; only the size used to determine the bucket depth impact is changed.

Use this command to add downstream frame encapsulation or remove portions of packet headers.

When child policers add to or subtract from the packet size, the minimum threshold separation value of the parent policer must be modified by the same amount.

Range -32 to 31

Introduced 25.3.R2

Platforms SAR Gen 2

rate

Synopsis Enter the **rate** context

Context **configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* rate

Tree rate

Description Commands in this context configure the metering and optional profiling rates of the policer.

The metering rate is used by the system to configure the PIR leaky bucket decrement rate and the profiling rate configures the CIR leaky bucket decrement rate. The decrement function empties the bucket; packets applied to the bucket attempt to fill it based on its packet size. If the bucket fills faster than the rate that it empties, the bucket depth eventually reaches its exceeded (CIR) or violate (PIR) threshold.

Introduced 25.3.R2

Platforms SAR Gen 2

cir *(number | keyword)*

Synopsis CIR for the policer

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Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Description	This command overrides the default CIR rate of the policer. When the policer is first created, the profiling rate defaults to 0 kb/s. When **max** is configured, the maximum policer rate used is equal to the maximum capacity of the card that the policer is configured for. If the policer rate is set to a value larger than the maximum rate possible for the card, the CIR used is equivalent to maximum.
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the policer
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Description	This command configures the metering rate of the policer for the PIR leaky bucket. When the policer is first created, the metering rate defaults to max. When **max** is configured, the maximum policer rate used is equal to the maximum capacity of the card that the policer is configured for. If the policer rate is set to a value larger than the maximum rate possible for the card, the PIR used is equivalent to maximum.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Stat mode for the policer
Context	**configure** card *number* fp *number* ingress access queue-group *reference* instance-id *number* policer-overrides policer *reference* stat-mode *keyword*

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Tree	stat-mode
Description	This command specifies the forwarding plane counters that allow offered, output, and discard accounting to occur for the policer.
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection

Synopsis	Enter the **dist-cpu-protection** context
Context	**configure** card *number* fp *number* ingress dist-cpu-protection
Tree	dist-cpu-protection
Description	Commands in this context configure the distributed CPU protection forwarding plane settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-enforcement-policer-pool *number*

Synopsis	Number of policers reserved as enforcement policers use
Context	**configure** card *number* fp *number* ingress dist-cpu-protection dynamic-enforcement-policer-pool *number*
Tree	dynamic-enforcement-policer-pool
Description	This command reserves a set of policers for use as dynamic enforcement policers for the Distributed CPU Protection (DCP) feature. Policers are allocated from this pool and instantiated as per-object per-protocol dynamic enforcement policers after a local monitor is triggered for an object, such as a SAP or network interface. A change to this configured value automatically clears the high water mark, timestamp, and failed allocation count. If the command is configured to a value below the currently used or allocated number, all dynamic policers are returned to the free pool (and traffic returns to the local monitors).
Range	1000 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

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network

Synopsis	Enter the **network** context
Context	**configure** card *number* fp *number* ingress network
Tree	network
Description	Commands in this context configure the IOM ingress network forwarding plane settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** card *number* fp *number* ingress network pool *named-item*
Tree	pool
Description	Commands in this context configure the list of forwarding plane ingress network pool settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Network ingress pool name for the FP
Context	**configure** card *number* fp *number* ingress network pool *named-item*
Tree	pool
String length	1 to 32
MD-CLI default	default
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [queue-group-name] *reference* instance-id *number*

Synopsis	Enter the **queue-group** list instance

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Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number*
Tree	queue-group
Description	Commands in this context configure IOM ingress network forwarding plane queue-group settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-group-name**] *reference*

Synopsis	Queue group name
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number*
Tree	queue-group
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

instance-id *number*

Synopsis	Instance ID
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number*
Tree	queue-group
Range	1 to 65535
MD-CLI default	1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy for the FP ingress queue group

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Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* accounting-policy *reference*
Tree	accounting-policy
Description	This command configures an accounting policy for the FP ingress queue group. You can only apply accounting policies associated with service billing to SAPs. Only associate the accounting policy with one interface at a time.
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect statistics on FP ingress queue group
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* collect-stats *boolean*
Tree	collect-stats
Description	When configured to **true**, the system collects accounting and statistical data for the queue group on the FP. When configured to **false**, the system still accumulates the statistics; however, the CPU does not obtain the results and write them to the billing file. If this command is set to **true** (after it had previously been set to **false**), the counters written to the billing file include the traffic collected when the command was set to **false**.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy
Tree	policer-control-policy
Description	Commands in this context configure the IOM ingress network forwarding plane queue-group policer control policy settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides
Tree	overrides
Description	Commands in this context configure the IOM ingress network forwarding plane queue-group policer control policy override settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum rate override
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides max-rate *(number | keyword)*
Tree	max-rate
Description	This command defines the PIR leaky bucket decrement rate of the parent policer. Each time you apply the policer control policy to a SAP or subscriber instance a parent policer is created. Packets not discarded by the child policer associated with the SAP or subscriber instance are evaluated against the leaky bucket of the parent policer. For each packet, the system first decrements the bucket by the correct amount based on the decrement rate to derive the current bucket depth. The system compares the current depth to one of two discard thresholds associated with the packet. The first discard threshold is applied if the Fair Information Rate (FIR) leaky bucket of the child policer is in the confirming state. The second discard threshold is applied if the FIR leaky bucket of the child policer is in the exceed state.

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Only one of the two thresholds is applied per packet. If the current depth of the parent policer PIR bucket is less than the threshold value, the parent PIR bucket is in the conform state for that particular packet. If the depth is equal to or greater than the applied threshold, the bucket is in the violate state for the packet.

If the result is conform, the bucket depth is increased by the size of the packet (plus or minus the per-packet offset setting in the child policer) and the parent policer does not discard the packet. If the result is violate, the bucket depth is not increased and the parent policer discards the packet. When the parent policer discards a packet, the bucket depth increases (PIR, CIR, and FIR) in the parent policer are canceled. This prevents packets that the parent policer discards from consuming the PIR, CIR, and FIR bandwidth of the child policers.

Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds
Tree	priority-mbs-thresholds
Description	Commands in this context configure settings to derive the shared portion and fair portion for each priority level. The system uses the shared portion and fair portion values to calculate the discard-unfair and discard-all MBS thresholds that enforce priority-sensitive rate-based discards within the root arbiter parent policer.
Introduced	25.3.R2
Platforms	SAR Gen 2

min-threshold-separation *(number | keyword)*

Synopsis	Minimum separation between any two active thresholds
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds min-threshold-separation *(number | keyword)*
Tree	min-threshold-separation
Description	This command configures the minimum separation between any two active thresholds in the parent policer.

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Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds priority *number*
Tree	priority
Description	Commands in this context configure the list of priority MBS threshold priority settings for IOM ingress network forwarding plane queue-group policer control policy overrides.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level**] *number*

Synopsis	Priority level, higher number is stricter
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	MBS contribution size override
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy overrides priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution

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Description	This command specifies the packet burst capacity required at the parent policer for a specified priority level with at least one child, and where the total capacity also includes the capacity of all lower thresholds.
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-overrides

Synopsis	Enter the **policer-overrides** context
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides
Tree	policer-overrides
Description	Commands in this context configure the policer overrides for the IOM ingress network forwarding plane queue-groups.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference*
Tree	policer

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Description	Commands in this context configure the list of policer override parameters for IOM ingress network forwarding plane queue-groups.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer ID
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference*
Tree	policer
Reference	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS tolerance allowed by the policer
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Description	This command configures the CIR leaky bucket exceed threshold of the policer. If the forwarding rate of the policer is equal to or less than the defined CIR, the CIR bucket depth hovers around the 0 depth, with spikes up to the maximum packet size in the offered load. If the forwarding rate increases beyond the profiling rate, the threshold caps the amount of data allowed to be in-profile above the rate.
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum burst tolerance allowed by the policer

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Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Description	This command configures the PIR leaky bucket violate threshold of the policer. Ingress, trusted in-profile packets and untrusted high priority packets use the high priority violate threshold and trusted out-of-profile. Untrusted low priority packets use the low priority violate threshold. If the offered rate of the policer is equal to or less than the defined rate, the PIR bucket depth hovers around the 0 depth, with spikes up to the maximum packet size in the offered load. If the offered rate increases beyond the metering rate, the threshold caps the amount of data allowed above the rate. The low priority violate threshold provides a smaller burst size for the lower priority traffic associated with the policer. Because all lower priority traffic is discarded at the lower burst tolerance size, the remaining burst tolerance is available for higher priority traffic.
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size adjustment
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Description	This command modifies the size of each packet handled by the policer by adding or subtracting a number of bytes. The actual packet size is not modified; only the size used to determine the bucket depth impact is changed. Use this command to add downstream frame encapsulation or remove portions of packet headers. When child policers add to or subtract from the packet size, the minimum threshold separation value of the parent policer must be modified by the same amount.
Range	-32 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

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rate

Synopsis	Enter the **rate** context
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* rate
Tree	rate
Description	Commands in this context configure the metering and optional profiling rates of the policer. The metering rate is used by the system to configure the PIR leaky bucket decrement rate and the profiling rate configures the CIR leaky bucket decrement rate. The decrement function empties the bucket; packets applied to the bucket attempt to fill it based on its packet size. If the bucket fills faster than the rate that it empties, the bucket depth eventually reaches its exceeded (CIR) or violate (PIR) threshold.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the policer
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Description	This command overrides the default CIR rate of the policer. When the policer is first created, the profiling rate defaults to 0 kb/s. When **max** is configured, the maximum policer rate used is equal to the maximum capacity of the card that the policer is configured for. If the policer rate is set to a value larger than the maximum rate possible for the card, the CIR used is equivalent to maximum.
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the policer

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Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Description	This command configures the metering rate of the policer for the PIR leaky bucket. When the policer is first created, the metering rate defaults to max. When **max** is configured, the maximum policer rate used is equal to the maximum capacity of the card that the policer is configured for. If the policer rate is set to a value larger than the maximum rate possible for the card, the PIR used is equivalent to maximum.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Stat mode for the policer
Context	**configure** card *number* fp *number* ingress network queue-group *reference* instance-id *number* policer-overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Description	This command specifies the forwarding plane counters that allow offered, output, and discard accounting to occur for the policer.
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-policy *reference*

Synopsis	Network queue policy
Context	**configure** card *number* fp *number* ingress network queue-policy *reference*
Tree	queue-policy
Reference	**configure** qos network-queue *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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init-extract-prio-mode *keyword*

Synopsis	Initial drop priority mode of extracted traffic
Context	**configure** card *number* fp *number* init-extract-prio-mode *keyword*
Tree	init-extract-prio-mode
Description	This command specifies the scheme to select the initial drop priority of extracted control plane traffic. The initial drop priority of extracted packets can be either low or high priority. The drop priority can be altered subsequently by mechanisms such as CPU protection. High priority traffic receives preferential treatment in control plane congestion situations over low priority traffic.
Options	uniform, l3-classify
Default	uniform
Introduced	25.3.R2
Platforms	SAR Gen 2

mda [mda-slot] *number*

Synopsis	Enter the **mda** list instance
Context	**configure** card *number* mda *number*
Tree	mda
Description	Commands in this context cover attributes for specific MDA and XMA.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mda-slot**] *number*

Synopsis	MDA or XMA slot
Context	**configure** card *number* mda *number*
Tree	mda
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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access

Synopsis	Enter the **access** context
Context	**configure** card *number* mda *number* access
Tree	access
Description	Commands in this context configure egress and ingress pool policy parameters. Access egress and ingress pools are only allocated on channelized MDAs.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** card *number* mda *number* access egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** card *number* mda *number* access ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MDA
Context	**configure** card *number* mda *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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event [type] *keyword*

Synopsis	Enter the **event** list instance
Context	**configure** card *number* mda *number* event *keyword*
Tree	event
Description	Commands in this context allow the user to control the action taken when a specific hardware error event is raised against the target MDA. If no event action has been created for a specific event type, the management plane of the router ignores the hardware errors related to that event type. The log event raised for any event type (such as soft-error or memory-error) is tmnx EqHwEventDetected.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**type**] *keyword*

Synopsis	MDA event type being monitored
Context	**configure** card *number* mda *number* event *keyword*
Tree	event
Description	This command configures the type of event to be acted upon. • soft-error — Defines the action to take when soft errors are detected on the MDA. • internal-frame-loss — Provides system detected frame loss in the traffic transiting the MDA. • memory-error — Provides the user options to handle MDA memory error events on MDAs. This feature is supported on FP2- and FP3-based Ethernet MDAs and IMMs. • data-link-error — Provides the user options to handle datapath link errors on an MDA.
Options	soft-error, internal-frame-loss, memory-error, datapath-link-error
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action when a specific hardware error event is raised
Context	**configure** card *number* mda *number* event *keyword* action *keyword*
Tree	action

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Description This command defines the action taken when a specific hardware error event is detected on the target MDA.

When no event action is specified for an event type, the hardware errors related to the event type are ignored by the management plane of the router.

Actions include the following:

- log-only — Pass the log event to log management. No other action is taken.
- reset-mda — Reset the MDA.
- fail-mda — Set the operational state of the MDA to Failed. This Failed state persists until the clear mda command is issued (reset) or the MDA is removed and reinserted (re-seated).

Options none, log-only, reset, fail

Introduced 25.3.R2

Platforms SAR Gen 2

fail-on-error *boolean*

Synopsis Set operational state to Failed if an error is detected

Context **configure** card *number* mda *number* fail-on-error *boolean*

Tree fail-on-error

Description When configured to **true**, the fail-on-error feature is enabled on the MDA. When a defined rate of egress or ingress XPL errors occur on an MDA within a specified time interval, the MDA is placed in the Failed state. This can force an APS switchover or traffic to be rerouted.

The purpose of this feature is to avoid situations where traffic is forced to use a physical link that suffers from errors but is still technically operational. The feature uses values configured in the **configure card mda egress-xpl** and **configure card mda ingress-xpl** contexts.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

ingress

Synopsis Enter the **ingress** context

Context **configure** card *number* mda *number* ingress

Tree ingress

Introduced 26.7.R1

Platforms SAR Gen 2

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pre-classifier

Synopsis	Enter the **pre-classifier** context
Context	**configure** card *number* mda *number* ingress pre-classifier
Tree	pre-classifier
Description	Commands in this context attach an ingress preclassifier policy to the specified MDA.
Introduced	26.7.R1
Platforms	SAR Gen 2

dot1p-for-untagged-traffic *number*

Synopsis	Dot1p mapping for untagged traffic
Context	**configure** card *number* mda *number* ingress pre-classifier dot1p-for-untagged-traffic *number*
Tree	dot1p-for-untagged-traffic
Description	This command specifies the dot1p equivalence for untagged traffic on high-density MDAs.
Range	0 to 7
Introduced	26.7.R1
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Preclassifier policy name
Context	**configure** card *number* mda *number* ingress pre-classifier policy-name *reference*
Tree	policy-name
Reference	**configure** qos pre-classifier-policy *named-item-64*
Introduced	26.7.R1
Platforms	SAR Gen 2

mda-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis MDA type for the slot

Context **configure** card *number* mda *number* mda-type *keyword*

Tree mda-type

Description This command provisions a specific MDA type to the device configuration for the slot. The MDA can be pre-provisioned and an MDA must be provisioned before connectors or ports can be configured.

A maximum of two MDAs can be provisioned on an IOM or XCM. XMAs are provisioned using MDA commands.

A medium severity alarm is generated if an MDA is inserted that does not match the MDA type configured for the slot. This alarm is cleared when the correct MDA is inserted or the configuration is modified. A high severity alarm is raised when an administratively enabled MDA is removed from the chassis. This alarm is cleared if either the correct MDA type is inserted or the configuration is modified. A low severity alarm is issued if an MDA is removed that is administratively disabled.

An MDA can only be provisioned in a slot if the MDA type is allowed in the MDA slot. An error message is generated when an MDA is provisioned in a slot where it is not allowed.

Some MDA hardware can support two different firmware loads. One load includes the base Ethernet functionality, including 10G WAN mode, but does not include 1588 port-based timestamping. The second load includes the base Ethernet functionality and 1588 port-based timestamping, but does not include 10G WAN mode. These are identified as two MDA types that are the same, except for a "-ptp" suffix to indicate the second loadset. A hard reset of the MDA occurs when switching between the two provisioned types.

An alarm is raised if partial or complete MDA failure is detected. The alarm is cleared when the error condition ceases.

New generations of XMAs include variants controlled through hardware and software licensing. For these XMAs, the license level must be provisioned in addition to the MDA type. An XMA cannot become operational unless the provisioned license level matches the license level of the XMA installed into the slot.

The set of license levels varies by MDA type. The provisioned level controls aspects related to connector provisioning and the consumption of hardware egress queues and egress policers. Changes to the provisioned license level may be blocked if configuration that would not be permitted with the new target license level exists. If the license level is not specified, the level is set to the highest license level for that XMA.

On the 7705 SAR-1, the MDA in slot 1 is auto-equipped and autoprovisioned by default during startup, and cannot be modified or removed. Slots 3 and 4 are reserved for virtual ISA MDAs.

On the 7705 SAR-Hx and 7705 SAR-Mx, Ethernet and T1/E1 MDAs can be provisioned only in slot 1. The MDA in slot 2 is auto-equipped and autoprovisioned by default during startup, and cannot be modified or removed. Slots 3 and 4 are reserved for virtual ISA MDAs.

For more information about MDA types, see the "Port types" section in the *7705 SAR Gen 2 Interface Configuration Guide*.

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Options	x12-400g-qsfpdd, x6-200g-cfp2-dco, p10-10g-sfp, p1-100g-cfp, p6-10g-sfp, x40-10g-sfp, m40-10g-sfp, p20-1gb-sfp, s36-100gb-qsfp28-3.6t, p-isa2-ms, p-isa2-ms-e, isa2-aa, isa2-tunnel, isa2-bb, x4-100g-cfp2, maxp1-100gb-cfp, ma4-10gb-sfp+, maxp10-10gb-sfp+, me10-10gb-sfp+, ma2-10gb-sfp+12-1gb-sfp, ma44-1gb-csfp, ma20-1gb-tx, m20-10g-sfp+, me1-100gb-cfp2, m4-100g-cfp4, maxp1-100gb-cfp2, maxp1-100gb-cfp4, isa-ms-v, isa-aa-v, isa-tunnel-v, isa-bb-v, m20-v, me-isa2-ms, me-isa2-ms-e, me40-1gb-csfp, m4-1g-tx+20-1g-sfp+6-10g-sfp+, me6-10gb-sfp+, isa2-video, me2-100gb-qsfp28, i6-10/100eth-tx, i2-sdi, i2-cellular, me12-10/1gb-sfp+, me16-25gb-sfp28+2-100gb-qsfp28, me6-100gb-qsfp28, x6-400g-cfp8, me2-100gb-ms-qsfp28, s18-100gb-qsfp28, x40-10g-sfp-ptp, m40-10g-sfp-ptp, m36-100g-qsfp28, m48-sfp+2-qsfp28, m10-10g-sfp+, m20-1g-csfp, m6-10g-sfp++1-100g-qsfp28, me3-200gb-cfp2-dco, x24-100g-qsfp28, me12-100gb-qsfp28, i1-wlan, s36-400gb-qsfpdd, m24-sfp++8-sfp28+2-qsfp28, s36-100gb-qsfp28, a32-chds1v2, m48-sfp++6-qsfp28, maxp10-10/1gb-msec-sfp+, m4-10g-sfp++1-100g-cfp2, i3-10/100eth-tx, me3-400gb-qsfpdd, m18-25g-sfp28, m14-10g-sfp++4-1g-tx, m6-10g-sfp++4-25g-sfp28, me6-400gb-qsfpdd, me8-10/25gb-sfp28, m10-1g-sfp+2-10g-sfp+, m6-qsfpdd+48-sfp56, m32-qsfp28+4-qsfpdd, m36-qsfpdd, m1-400g-qsfpdd+1-100g-qsfp28, m5-100g-qsfp28, m48-800g-qsfpdd-1x, m24-800g-qsfpdd-1, ms36-800g-qsfpdd, x2-s36-800g-qsfpdd-18.0t, m48-400g-qsfpdd-1, m80-200g-sfpdd+12-800g-qsfpdd-1x, m40-200g-sfpdd+6-800g-qsfpdd-1, m80-200g-sfpdd+12-400g-qsfpdd-1, m46-10g-sfp+, m2-cfp2, m2-qsfpdd+2-qsfp28+24-sfp28, x2-s36-800g-qsfpdd-12.0t, me16-25gb-sfp28+2-100gb-qsfp-b, m10-50g-sfp56, m32-1g-csfp, m80-1g-csfp, m12-sfp28+2-qsfp28, m2-100g-qsfp28+16-10g-sfp+, d24-800g-qsfpdd-1, m10-sfp++6-sfp, m16-sfp112+15-sfp56+6-qsfpdd, m4-qsfp28+16-sfp28+8-sfp56, m8-t1e1-rj48, m4-1g-rj+6-10g-sfp++2-25g-sfp28, m2-1g-sfp+2-10g-sfp+, m8-1g-rj45, m8-1g-sfp, m4-rs232-rj45+4-c3794-sfp, m5e2-100g-qsfp28+2-800g-qdd, m5e8-100g-sfp112+2-800g-qdd, m4-sfp+4-sfp+, m4-sfp+4-sfp+-s, m16-sfp++4-sfp28, m5e10-100g-qsfp28, m5e16-100g-sfp112
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** card *number* mda *number* network
Tree	network
Description	Commands in this context configure egress and ingress pool policy parameters for the network. Network egress pools are only allocated on channelized MDAs.
Introduced	25.3.R2
Platforms	SAR Gen 2

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egress

Synopsis	Enter the **egress** context
Context	**configure** card *number* mda *number* network egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** card *number* mda *number* network ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-e *keyword*

Synopsis	Synchronous Ethernet capability
Context	**configure** card *number* mda *number* sync-e *keyword*
Tree	sync-e
Description	This command enables synchronous Ethernet on the MDA. When enabled, any port on the MDA can be used as a source port in the central frequency clock configuration, under the **configure system central-frequency-clock** context.
Options	true, false
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.5 chassis commands

```
configure
   – chassis keyword chassis-number number
      – apply-groups reference
      – apply-groups-exclude reference
      – fan number
         – apply-groups reference
         – apply-groups-exclude reference
      – power-supply number
         – apply-groups reference
         – apply-groups-exclude reference
```


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4.5.1 chassis command descriptions

chassis [chassis-class] *keyword* chassis-number *number*

Synopsis	Enter the **chassis** list instance
Context	**configure** chassis *keyword* chassis-number *number*
Tree	chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

[**chassis-class**] *keyword*

Synopsis	Functional use of the physical chassis
Context	**configure** chassis *keyword* chassis-number *number*
Tree	chassis
Options	router, ethernet-satellite
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

chassis-number *number*

Synopsis	Unique index to identify this physical chassis
Context	**configure** chassis *keyword* chassis-number *number*
Tree	chassis
Range	1 to 100
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fan [fan-slot] *number*

Synopsis	Enter the **fan** list instance
Context	**configure** chassis *keyword* chassis-number *number* fan *number*

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Tree	fan
Introduced	26.7.R1
Platforms	SAR Gen 2

[**fan-slot**] *number*

Synopsis	The unique identifier index for a fan tray in the chassis.
Context	**configure** chassis *keyword* chassis-number *number* fan *number*
Tree	fan
Range	1 to 31
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

power-supply [power-supply-id] *number*

Synopsis	Enter the **power-supply** list instance
Context	**configure** chassis *keyword* chassis-number *number* power-supply *number*
Tree	power-supply
Introduced	25.3.R2
Platforms	SAR Gen 2

[**power-supply-id**] *number*

Synopsis	Unique identifier index for a power supply tray in the chassis
Context	**configure** chassis *keyword* chassis-number *number* power-supply *number*
Tree	power-supply
Range	1 to 31
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.6 connection-profile commands

```
configure
   - connection-profile
      - apply-groups reference
      - apply-groups-exclude reference
      - vlan number
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - qtag-range number
            - apply-groups reference
            - apply-groups-exclude reference
            - end number
```


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4.6.1 connection-profile command descriptions

connection-profile

Synopsis	Enter the **connection-profile** context
Context	**configure** connection-profile
Tree	connection-profile
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan [connection-profile-id] *number*

Synopsis	Enter the **vlan** list instance
Context	**configure** connection-profile vlan *number*
Tree	vlan
Introduced	25.3.R2
Platforms	SAR Gen 2

[**connection-profile-id**] *number*

Synopsis	Identifier of this connection profile
Context	**configure** connection-profile vlan *number*
Tree	vlan
Range	1 to 8000
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** connection-profile vlan *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

qtag-range [start] *number*

Synopsis	Enter the **qtag-range** list instance
Context	**configure** connection-profile vlan *number* qtag-range *number*
Tree	qtag-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *number*

Synopsis	Lower bound of VLAN range for connection profile
Context	**configure** connection-profile vlan *number* qtag-range *number*
Tree	qtag-range
Range	1 to 4094
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of VLAN range for connection profile
Context	**configure** connection-profile vlan *number* qtag-range *number* end *number*
Tree	end
Range	1 to 4094
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.7 debug commands

```
debug
   – certificate
      – auto-certificate-update pki-file-name
      – auto-crl-update named-item
      – cmpv2 named-item
      – est named-item
      – ocsp named-item
   – ipsec
      – certificate pki-file-name
      – client-db named-item
      – gateway named-item
         – tunnel (ipv4-address-no-zone | ipv6-address-no-zone) port number
            – detail boolean
            – display-keys boolean
            – suppress-dpd-debug boolean
         – tunnel-nat ipv4-unicast-address port number pre-nat-ip-address ipv4-unicast-
address pre-nat-port number
            – detail boolean
            – display-keys boolean
            – suppress-dpd-debug boolean
         – tunnel-subnet (ipv4-prefix | ipv6-prefix) port (keyword | number)
            – detail boolean
            – display-keys boolean
            – suppress-dpd-debug boolean
      – transport-mode
         – ip-tunnel interface-name
            – detail boolean
            – display-keys boolean
            – suppress-dpd-debug boolean
      – tunnel named-item
         – detail boolean
         – display-keys boolean
         – suppress-dpd-debug boolean
   – lag lag-interface
      – adaptive-loadbalancing boolean
      – bfd boolean
      – config boolean
      – iom-updates boolean
      – lacp-packets boolean
      – multi-chassis boolean
      – multi-chassis-packets boolean
      – port port
         – bfd boolean
         – config boolean
         – lacp-packets boolean
         – multi-chassis boolean
         – port-states boolean
         – redundancy boolean
         – selection-logic boolean
         – state-machine boolean
         – timers boolean
      – port-states boolean
      – redundancy boolean
      – selection-logic boolean
      – state-machine boolean
      – timers boolean
   – multicast-management
      – multicast-reporting-destination named-item
         – detail-level keyword
```


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```
        - egress boolean
        - group-address ipv4-multicast-address
        - host-address ipv4-unicast-address
  - python
     - python-script named-item
        - script-all-info
        - script-compile-error
        - script-export-variables
        - script-output
        - script-output-on-error
        - script-runtime-error
  - router string
     - dhcp
        - all-packets
           - detail-level keyword
           - mode keyword
        - interface interface-name
           - detail-level keyword
           - mode keyword
        - mac mac-unicast-address-no-zero
           - detail-level keyword
           - mode keyword
        - sap sap
           - detail-level keyword
           - mode keyword
     - dhcp-server
        - dhcpv4 named-item
           - all-packets
              - detail-level keyword
              - mode keyword
           - lease ipv4-prefix
              - detail-level keyword
              - mode keyword
           - mac mac-address
              - detail-level keyword
              - mode keyword
        - dhcpv6 named-item
           - all-packets
              - detail-level keyword
              - mode keyword
           - lease ipv6-prefix
              - detail-level keyword
              - mode keyword
           - link-local-address ipv6-address
              - detail-level keyword
              - mode keyword
     - dhcp6
        - all-packets
           - detail-level keyword
           - mode keyword
        - client-identifier
           - duid hex-string
              - detail-level keyword
              - mask hex-string
              - mode keyword
           - link-layer-address hex-string
              - detail-level keyword
              - mode keyword
        - interface interface-name
           - detail-level keyword
           - mode keyword
        - sap sap
           - detail-level keyword
           - mode keyword
```


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```
      - igmp
        - group-interface
          - all-group-interfaces
        - host
          - ip-address ipv4-address
        - interface
          - all-interfaces
          - interface-name interface-name
        - mcs
          - all-interfaces
          - interface-name interface-name
        - miscellaneous boolean
        - packet
          - all-origins
          - dropped boolean
          - egress boolean
          - host-ip-address ipv4-address
          - ingress boolean
          - interface-ip-address ipv4-address
          - interface-name interface-name
          - type keyword
      - ip
        - icmp
          - all-packets
          - interface interface-name
        - icmp6
          - all-packets
          - interface interface-name
        - interface-events
          - all-events
          - interface interface-name
        - neighbor
          - all-events
            - address-family keyword
          - interface interface-name
            - address-family keyword
        - packet
          - all-packets
            - address-family keyword
            - headers boolean
            - protocol-id number
          - interface interface-name
            - address-family keyword
            - headers boolean
            - protocol-id number
        - route-table
          - all
          - filter
            - ipv4
              - prefix ipv4-prefix
                - longest-prefix-match boolean
            - ipv6
              - prefix ipv6-prefix
                - longest-prefix-match boolean
        - tunnel-table
          - all
          - filter
            - id
              - sdp-id number
              - tunnel-id number
            - ipv4
              - prefix ipv4-prefix
                - longest-prefix-match boolean
                - tunnel-type (keyword | keyword)
```


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debug router ip tunnel-table filter ipv6

```
            - ipv6
               - prefix ipv6-prefix
                  - longest-prefix-match boolean
                  - tunnel-type (keyword | keyword)
      - ldp
         - interface interface-name
            - ipv4
               - event
                  - messages
               - packet
                  - hello
                     - detail boolean
            - ipv6
               - event
                  - messages
               - packet
                  - hello
                     - detail boolean
         - peer (ipv4-address-no-zone | ipv6-address-no-zone)
            - event
               - bindings
               - messages
            - packet
               - hello
                  - detail boolean
               - init
                  - detail boolean
               - keepalive
               - label
                  - detail boolean
      - mld
         - group-interface
            - all-group-interfaces
         - host
            - ip-address ipv6-address
         - interface
            - all-interfaces
            - interface-name interface-name
         - mcs
            - all-interfaces
            - interface-name interface-name
         - miscellaneous boolean
         - packet
            - all-origins
            - dropped boolean
            - egress boolean
            - host-ip-address ipv6-address
            - ingress boolean
            - interface-ip-address ipv6-address
            - interface-name interface-name
            - type keyword
      - msdp
         - packet
            - all-packet-types
            - packet-types
               - keep-alive
                  - peer-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - sa-request
                  - peer-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - sa-response
                  - peer-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - source-active
                  - peer-address (ipv4-address-no-zone | ipv6-address-no-zone)
         - pim
```


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debug router msdp pim group-address

```
            - group-address ipv4-multicast-address
         - rtm
            - rp-address ipv4-address
         - sa-db
            - group-address ipv4-multicast-address
            - rp-address ipv4-address
            - source-address ipv4-address
      - mtrace
         - miscellaneous
         - packet
            - all-packet-types
            - packet-types
               - query boolean
               - request boolean
               - response boolean
      - mtrace2
         - miscellaneous
         - packet
            - all-packet-types
            - packet-types
               - query boolean
               - request boolean
               - response boolean
      - ospf number
         - area
            - all
            - area-id ipv4-address
         - area-range
            - all
            - range-address ipv4-address
         - cspf
            - all
            - cspf-addr ipv4-address
         - graceful-restart boolean
         - interface
            - interface-ip-address ipv4-address
            - interface-name string
         - leak
            - all
            - dest-addr ipv4-address
         - lsdb
            - adv-rtr-id ipv4-address
            - area ipv4-address
            - ls-id ipv4-address
            - ls-type keyword
         - misc boolean
         - neighbor
            - interface-ip-address ipv4-address
            - interface-name string
         - nssa-range
            - all
            - range-address ipv4-address
         - packet
            - detail boolean
            - direction keyword
            - interface-name string
            - packet-type keyword
         - rsvp-shortcut
            - all
            - rsvp-ep ipv4-address
         - rtm
            - all
            - dest-addr ipv4-address
         - sham-neighbor
```


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debug router ospf sham-neighbor all

```
            - all
            - dest-addr ipv4-address
         - spf
            - all
            - destination-address ipv4-address
            - type keyword
         - tunnel-endpoint
            - leak
               - all
               - tunnel-endpoint ipv4-address
            - spf
               - all
               - spf-endpoint ipv4-address
         - virtual-neighbor
            - all
            - neighbor-id ipv4-address
      - ospf3 number
         - area
            - all
            - area-id ipv4-address
         - area-range
            - all
            - range-address (ipv4-address-no-zone | ipv6-address-no-zone)
         - graceful-restart boolean
         - interface
            - all
            - interface-name string
         - leak
            - all
            - dest-addr (ipv4-address-no-zone | ipv6-address-no-zone)
         - lsdb
            - adv-rtr-id ipv4-address
            - area ipv4-address
            - ls-id ipv4-address
            - ls-type keyword
         - misc boolean
         - neighbor
            - interface-name string
            - router-id ipv4-address
         - nssa-range
            - all
            - range-address (ipv4-address-no-zone | ipv6-address-no-zone)
         - packet
            - detail boolean
            - direction keyword
            - interface-name string
            - packet-type keyword
         - rtm
            - all
            - dest-addr (ipv4-address-no-zone | ipv6-address-no-zone)
         - spf
            - all
            - destination-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - type keyword
         - tunnel-endpoint
            - leak
               - all
               - tunnel-endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
            - spf
               - all
               - spf-endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
         - virtual-neighbor
            - all
            - neighbor-id ipv4-address
```


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```
- pim
  - events
    - adjacency
    - all
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - assert
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - auto-rp
    - bgp
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - peer-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - bier-inband
      - detail boolean
    - bsr
      - detail boolean
    - data
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - db
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - dynmldp
      - detail boolean
    - extranet
      - detail boolean
    - graft
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - interface
      - interface-name interface-name
    - jp
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - mofrr
    - mrib
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - msg
    - mvpn-rtcache
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - peer-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - red
      - detail boolean
    - register
      - detail boolean
      - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
    - rpfv
      - detail boolean
    - rtm
      - detail boolean
    - s-pmsi
      - detail boolean
      - vpn-source-address (ipv4-address-no-zone | ipv6-address-no-zone)
```


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```
            - tunnel-interface
               - ldp-p2mp-id number
               - sender-address ipv4-unicast-address
         - packet
            - all-origins
            - all-packet-types
            - egress boolean
            - ingress boolean
            - interface-name interface-name
            - ipv4 boolean
            - ipv6 boolean
            - packet-types
               - assert
                  - all-origins
                  - interface-name interface-name
               - auto-rp-announcement
                  - all-origins
                  - interface-name interface-name
               - auto-rp-mapping
                  - all-origins
                  - interface-name interface-name
               - bsr
                  - all-origins
                  - interface-name interface-name
               - crp
                  - all-origins
                  - interface-name interface-name
               - graft
                  - all-origins
                  - interface-name interface-name
               - graft-ack
                  - all-origins
                  - interface-name interface-name
               - hello
                  - all-origins
                  - interface-name interface-name
               - jp
                  - all-origins
                  - interface-name interface-name
               - mdt-tlv
                  - all-origins
                  - interface-name interface-name
               - register
                  - all-origins
                  - interface-name interface-name
               - register-stop
                  - all-origins
                  - interface-name interface-name
      - radius
         - servers
            - attribute string
               - extended-type number
               - transaction boolean
               - type number
               - value
                  - address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - hex hex-string
                  - integer number
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - string string
               - vendor-specific
                  - encoding
                     - length-size number
                     - type-size number
```


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debug router radius servers attribute vendor-specific vendor

```
                - vendor (number | keyword)
                - vendor-type number
            - detail-level keyword
            - packet-types
                - accounting boolean
                - authentication boolean
                - coa boolean
            - server-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - vrrp
         - events
            - all-events
            - interface interface-name
               - all-vrids
               - ipv4
                  - vrid number
               - ipv6
                  - vrid number
         - packet
            - all-packets
            - interface interface-name
               - all-vrids
               - ipv4
                  - vrid number
               - ipv6
                  - vrid number
- service
   - vpls service-name
      - igmp-snooping
         - packet
            - detail keyword
            - dropped boolean
            - egress boolean
            - evpn-mpls boolean
            - ingress boolean
            - mac mac-address
            - sap sap
            - sdp-bind sdp-bind-id
      - mld-snooping
         - packet
            - detail keyword
            - dropped boolean
            - egress boolean
            - evpn-mpls boolean
            - ingress boolean
            - mac mac-address
            - sap sap
            - sdp-bind sdp-bind-id
      - pim-snooping
         - events
            - adjacency
            - all
               - detail boolean
               - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - db
               - detail boolean
               - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - jp
               - detail boolean
               - group-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - mcs
               - detail boolean
```


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debug service vpls pim-snooping events port

```
            - port
               - detail boolean
               - evpn-mpls
               - sap-id sap
               - sdp-bind-id sdp-bind-id
            - red
               - detail boolean
         - packet
            - all-origins
            - all-packet-types
            - packet-types
               - hello boolean
               - jp boolean
            - port
               - evpn-mpls
               - sap-id sap
               - sdp-bind-id sdp-bind-id
      - proxy-arp
         - all
         - ip
            - address ipv4-unicast-address
         - mac
            - address mac-address
      - proxy-nd
         - all
         - ip
            - address ipv6-address
         - mac
            - address mac-address
      - stp
         - events
            - all-events
            - event-types
               - bpdu boolean
               - core-connectivity boolean
               - exception boolean
               - fsm-state-changes boolean
               - fsm-timers boolean
               - port-role boolean
               - port-state boolean
         - sap sap
         - sdp-bind sdp-bind-id
- subscriber-mgmt
   - local-user-db named-item
      - mode keyword
- system
   - grpc
      - client
         - all
         - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - type keyword
   - grpc-tunnel
      - tunnel
         - all
         - name named-item
   - management-interface
      - netconf keyword
      - snmp keyword
   - persistence
      - all
      - ancp
      - dhcp-server
      - nat-fwds
```


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4.7.1 debug command descriptions

debug

Synopsis	Configure application or protocol tracing
Context	debug
Tree	debug
Description	Commands in this context enable detailed debugging information for various protocols and router functions.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate

Synopsis	Enter the **certificate** context
Context	debug certificate
Tree	certificate
Description	Commands in this context configure debugging for certificates.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-certificate-update [filename] *pki-file-name*

Synopsis	Add a list entry for **auto-certificate-update**
Context	debug certificate auto-certificate-update *pki-file-name*
Tree	auto-certificate-update
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filename**] *pki-file-name*

Synopsis	Certificate filename
Context	debug certificate auto-certificate-update *pki-file-name*

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Tree	auto-certificate-update
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-crl-update [ca-profile-name] *named-item*

Synopsis	Add a list entry for **auto-crl-update**
Context	debug certificate auto-crl-update *named-item*
Tree	auto-crl-update
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile-name**] *named-item*

Synopsis	Certificate Authority (CA) profile name
Context	debug certificate auto-crl-update *named-item*
Tree	auto-crl-update
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cmpv2 [ca-profile-name] *named-item*

Synopsis	Add a list entry for **cmpv2**
Context	debug certificate cmpv2 *named-item*
Tree	cmpv2
Description	This command adds a list entry for a CA profile to debug Certificate Management Protocol version 2 (CMPv2).

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Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile-name**] *named-item*

Synopsis	CA profile name
Context	debug certificate cmpv2 *named-item*
Tree	cmpv2
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

est [est-profile-name] *named-item*

Synopsis	Add a list entry for **est**
Context	debug certificate est *named-item*
Tree	est
Description	This command adds a list entry for debugging Enrollment over Secure Transport Protocol (EST).
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**est-profile-name**] *named-item*

Synopsis	EST profile name
Context	debug certificate est *named-item*
Tree	est
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

ocsp [ca-profile-name] *named-item*

Synopsis	Add a list entry for **ocsp**
Context	debug certificate ocsp *named-item*
Tree	ocsp
Description	This command adds a list entry for a CA profile to debug the Online Certificate Status Protocol (OCSP).
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile-name**] *named-item*

Synopsis	CA profile name
Context	debug certificate ocsp *named-item*
Tree	ocsp
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec

Synopsis	Enter the **ipsec** context
Context	debug ipsec
Tree	ipsec
Description	Commands in this context configure debugging for IP security (IPsec) functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

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certificate [filename] *pki-file-name*

Synopsis	Add a list entry for **certificate**
Context	debug ipsec certificate *pki-file-name*
Tree	certificate
Description	This command adds a list entry for debugging certificate chain computation in the certificate profile.
Max. instances	200
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filename**] *pki-file-name*

Synopsis	Imported IPsec certificate filename
Context	debug ipsec certificate *pki-file-name*
Tree	certificate
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-db [name] *named-item*

Synopsis	Add a list entry for **client-db**
Context	debug ipsec client-db *named-item*
Tree	client-db
Description	This command adds a list entry for debugging the specified IPsec client database.
Max. instances	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	IPsec client database name
Context	debug ipsec client-db *named-item*
Tree	client-db
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

gateway [name] *named-item*

Synopsis	Enter the **gateway** list instance
Context	debug ipsec gateway *named-item*
Tree	gateway
Description	Commands in this context configure debugging for dynamic IPsec tunnels that terminate on the specified IPsec gateway. Specify the tunnel to debug using either its source address or source subnet, by using the **debug ipsec gateway tunnel** command. If a subnet is specified, the system enables debugging for all tunnels with source addresses in the specified subnet.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec gateway name
Context	debug ipsec gateway *named-item*
Tree	gateway
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunnel [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number*

Synopsis	Enter the **tunnel** list instance
Context	debug ipsec gateway *named-item* tunnel *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number*
Tree	tunnel
Description	Commands in this context configure debugging for the specified IPsec gateway tunnel.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Gateway tunnel remote IP address
Context	debug ipsec gateway *named-item* tunnel *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number*
Tree	tunnel
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	Gateway tunnel remote port
Context	debug ipsec gateway *named-item* tunnel *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number*
Tree	tunnel
Range	1 to 65535
MD-CLI default	500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail *boolean*

Synopsis	Display detailed debug information
Context	debug ipsec gateway *named-item* tunnel *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number* detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

display-keys *boolean*

Synopsis	Display keys in the debug output
Context	debug ipsec gateway *named-item* tunnel *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number* display-keys *boolean*
Tree	display-keys
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-dpd-debug *boolean*

Synopsis	Display debug output without DPD information
Context	debug ipsec gateway *named-item* tunnel *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number* suppress-dpd-debug *boolean*
Tree	suppress-dpd-debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-nat [ip-address] *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number*

Synopsis	Enter the **tunnel-nat** list instance
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number*

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Tree	tunnel-nat
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *ipv4-unicast-address*

Synopsis	Gateway tunnel remote IP address
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number*
Tree	tunnel-nat
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	Gateway tunnel remote port
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number*
Tree	tunnel-nat
Range	1 to 65535
MD-CLI default	500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-nat-ip-address *ipv4-unicast-address*

Synopsis	Gateway tunnel peer pre-NAT IP address
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number*
Tree	tunnel-nat

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-nat-port *number*

Synopsis	Gateway tunnel peer pre-NAT port
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number*
Tree	tunnel-nat
Range	1 to 65535
MD-CLI default	500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed debug information
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number* detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

display-keys *boolean*

Synopsis	Display keys in the debug output
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number* display-keys *boolean*
Tree	display-keys
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-dpd-debug *boolean*

Synopsis	Display debug output without DPD information
Context	debug ipsec gateway *named-item* tunnel-nat *ipv4-unicast-address* port *number* pre-nat-ip-address *ipv4-unicast-address* pre-nat-port *number* suppress-dpd-debug *boolean*
Tree	suppress-dpd-debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-subnet [ip-prefix] *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)*

Synopsis	Enter the **tunnel-subnet** list instance
Context	debug ipsec gateway *named-item* tunnel-subnet *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)*
Tree	tunnel-subnet
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Gateway tunnel remote IP prefix
Context	debug ipsec gateway *named-item* tunnel-subnet *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)*
Tree	tunnel-subnet
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port *(keyword | number)*

Synopsis	Gateway tunnel remote port
Context	debug ipsec gateway *named-item* tunnel-subnet *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)*
Tree	tunnel-subnet
Range	1 to 65535
Options	any
MD-CLI default	any
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed debug information
Context	debug ipsec gateway *named-item* tunnel-subnet *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)* detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

display-keys *boolean*

Synopsis	Display keys in the debug output
Context	debug ipsec gateway *named-item* tunnel-subnet *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)* display-keys *boolean*
Tree	display-keys
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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suppress-dpd-debug *boolean*

Synopsis	Display debug output without DPD information
Context	debug ipsec gateway *named-item* tunnel-subnet *(ipv4-prefix | ipv6-prefix)* port *(keyword | number)* suppress-dpd-debug *boolean*
Tree	suppress-dpd-debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

transport-mode

Synopsis	Enter the **transport-mode** context
Context	debug ipsec transport-mode
Tree	transport-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-tunnel [name] *interface-name*

Synopsis	Enter the **ip-tunnel** list instance
Context	debug ipsec transport-mode ip-tunnel *interface-name*
Tree	ip-tunnel
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *interface-name*

Synopsis	IPsec transport mode IP tunnel name
Context	debug ipsec transport-mode ip-tunnel *interface-name*
Tree	ip-tunnel
String length	1 to 32
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed debug information
Context	debug ipsec transport-mode ip-tunnel *interface-name* detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

display-keys *boolean*

Synopsis	Display keys in the debug output
Context	debug ipsec transport-mode ip-tunnel *interface-name* display-keys *boolean*
Tree	display-keys
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-dpd-debug *boolean*

Synopsis	Display debug output without DPD information
Context	debug ipsec transport-mode ip-tunnel *interface-name* suppress-dpd-debug *boolean*
Tree	suppress-dpd-debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel [name] *named-item*

Synopsis	Enter the **tunnel** list instance
Context	debug ipsec tunnel *named-item*
Tree	tunnel

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Description	Commands in this context configure debugging for the specified IPsec tunnel.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec tunnel name
Context	debug ipsec tunnel *named-item*
Tree	tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed debug information
Context	debug ipsec tunnel *named-item* detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

display-keys *boolean*

Synopsis	Display keys in the debug output
Context	debug ipsec tunnel *named-item* display-keys *boolean*
Tree	display-keys
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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suppress-dpd-debug *boolean*

Synopsis	Display debug output without DPD information
Context	debug ipsec tunnel *named-item* suppress-dpd-debug *boolean*
Tree	suppress-dpd-debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lag [lag-name] *lag-interface*

Synopsis	Enter the **lag** list instance
Context	debug lag *lag-interface*
Tree	lag
Description	Commands in this context configure debugging for Link Aggregation Group (LAG).
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *lag-interface*

Synopsis	LAG name
Context	debug lag *lag-interface*
Tree	lag
Description	This command specifies the LAG name. In model-driven interfaces, the LAG name is used for configuration references and **show** commands. A service provider or administrator can use the defined LAG name to identify and manage LAGs within the SR OS platforms. The LAG name must always start with "lag-".
String length	1 to 27
String format	'lag-interface' must be lag- followed by number 1-800 or up to 23 chars (e.g. lag-1 or lag-my-lag)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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adaptive-loadbalancing *boolean*

Synopsis	Enable debugging for adaptive load balancing
Context	debug lag *lag-interface* adaptive-loadbalancing *boolean*
Tree	adaptive-loadbalancing
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

bfd *boolean*

Synopsis	Enable debugging for BFD
Context	debug lag *lag-interface* bfd *boolean*
Tree	bfd
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

config *boolean*

Synopsis	Enable debugging for configuration changes
Context	debug lag *lag-interface* config *boolean*
Tree	config
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

iom-updates *boolean*

Synopsis	Enable debugging for IOM updates
Context	debug lag *lag-interface* iom-updates *boolean*
Tree	iom-updates
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

lacp-packets *boolean*

Synopsis	Enable debugging for LACP packets
Context	debug lag *lag-interface* lacp-packets *boolean*
Tree	lacp-packets
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis *boolean*

Synopsis	Enable debugging for multi-chassis LAG
Context	debug lag *lag-interface* multi-chassis *boolean*
Tree	multi-chassis
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis-packets *boolean*

Synopsis	Enable debugging for multi-chassis packets
Context	debug lag *lag-interface* multi-chassis-packets *boolean*
Tree	multi-chassis-packets
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port [port-id] *port*

Synopsis	Enter the **port** list instance
Context	debug lag *lag-interface* port *port*
Tree	port
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**port-id**] *port*

Synopsis	Unique identifier for the port in the LAG
Context	debug lag *lag-interface* port *port*
Tree	port
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd *boolean*

Synopsis	Enable debugging for BFD
Context	debug lag *lag-interface* port *port* bfd *boolean*
Tree	bfd
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

config *boolean*

Synopsis	Enable debugging for configuration changes
Context	debug lag *lag-interface* port *port* config *boolean*
Tree	config
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp-packets *boolean*

Synopsis	Enable debugging for LACP packets
Context	debug lag *lag-interface* port *port* lacp-packets *boolean*
Tree	lacp-packets
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis *boolean*

Synopsis	Enable debugging for multi-chassis LAG
Context	debug lag *lag-interface* port *port* multi-chassis *boolean*
Tree	multi-chassis
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-states *boolean*

Synopsis	Enable debugging for port-state changes
Context	debug lag *lag-interface* port *port* port-states *boolean*
Tree	port-states
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

redundancy *boolean*

Synopsis	Enable debugging for redundancy
Context	debug lag *lag-interface* port *port* redundancy *boolean*
Tree	redundancy
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

selection-logic *boolean*

Synopsis	Enable debugging for selection logic
Context	debug lag *lag-interface* port *port* selection-logic *boolean*
Tree	selection-logic

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

state-machine *boolean*

Synopsis	Enable debugging for state-machine changes
Context	debug lag *lag-interface* port *port* state-machine *boolean*
Tree	state-machine
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timers *boolean*

Synopsis	Enable debugging for timers
Context	debug lag *lag-interface* port *port* timers *boolean*
Tree	timers
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-states *boolean*

Synopsis	Enable debugging for port-state changes
Context	debug lag *lag-interface* port-states *boolean*
Tree	port-states
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

redundancy *boolean*

Synopsis	Enable debugging for redundancy
Context	debug lag *lag-interface* redundancy *boolean*

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Tree	redundancy
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

selection-logic *boolean*

Synopsis	Enable debugging for selection logic
Context	debug lag *lag-interface* selection-logic *boolean*
Tree	selection-logic
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

state-machine *boolean*

Synopsis	Enable debugging for state-machine changes
Context	debug lag *lag-interface* state-machine *boolean*
Tree	state-machine
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timers *boolean*

Synopsis	Enable debugging for timers
Context	debug lag *lag-interface* timers *boolean*
Tree	timers
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-management

Synopsis	Enter the **multicast-management** context

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Context	debug multicast-management
Tree	multicast-management
Description	Commands in this context debug multicast path management.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-reporting-destination [name] *named-item*

Synopsis	Enter the **multicast-reporting-destination** list instance
Context	debug multicast-management multicast-reporting-destination *named-item*
Tree	multicast-reporting-destination
Description	Commands in this context debug multicast path management reporting destinations.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Multicast reporting destination name
Context	debug multicast-management multicast-reporting-destination *named-item*
Tree	multicast-reporting-destination
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the debug output
Context	debug multicast-management multicast-reporting-destination *named-item* detail-level *keyword*
Tree	detail-level
Options	low, medium, high
Default	medium
Introduced	25.3.R2

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Platforms	SAR Gen 2

egress *boolean*

Synopsis	Enable tracing for outgoing messages
Context	debug multicast-management multicast-reporting-destination *named-item* egress *boolean*
Tree	egress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *ipv4-multicast-address*

Synopsis	Group address
Context	debug multicast-management multicast-reporting-destination *named-item* group-address *ipv4-multicast-address*
Tree	group-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

host-address *ipv4-unicast-address*

Synopsis	Host address
Context	debug multicast-management multicast-reporting-destination *named-item* host-address *ipv4-unicast-address*
Tree	host-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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python

Synopsis	Enter the **python** context
Context	debug python
Tree	python
Introduced	26.7.R1
Platforms	SAR Gen 2

python-script [name] *named-item*

Synopsis	Enter the **python-script** list instance
Context	debug python python-script *named-item*
Tree	python-script
Max. instances	8
Introduced	26.7.R1
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Python script name
Context	debug python python-script *named-item*
Tree	python-script
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

script-all-info

Synopsis	All script information
Context	debug python python-script *named-item* script-all-info
Tree	script-all-info

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Notes	The following elements are part of a choice: **script-all-info** or (**script-compile-error**, **script-export-variables**, **script-output**, **script-output-on-error**, and **script-runtime-error**).
Introduced	26.7.R1
Platforms	SAR Gen 2

script-compile-error

Synopsis	Log information on compile errors
Context	debug python python-script *named-item* script-compile-error
Tree	script-compile-error
Notes	The following elements are part of a choice: **script-all-info** or (**script-compile-error**, **script-export-variables**, **script-output**, **script-output-on-error**, and **script-runtime-error**).
Introduced	26.7.R1
Platforms	SAR Gen 2

script-export-variables

Synopsis	Export variables on successful script completion
Context	debug python python-script *named-item* script-export-variables
Tree	script-export-variables
Notes	The following elements are part of a choice: **script-all-info** or (**script-compile-error**, **script-export-variables**, **script-output**, **script-output-on-error**, and **script-runtime-error**).
Introduced	26.7.R1
Platforms	SAR Gen 2

script-output

Synopsis	Log information with script output data
Context	debug python python-script *named-item* script-output
Tree	script-output
Notes	The following elements are part of a choice: **script-all-info** or (**script-compile-error**, **script-export-variables**, **script-output**, **script-output-on-error**, and **script-runtime-error**).
Introduced	26.7.R1

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Platforms	SAR Gen 2

script-output-on-error

Synopsis	Log information with unsuccessful script output data
Context	debug python python-script *named-item* script-output-on-error
Tree	script-output-on-error
Notes	The following elements are part of a choice: **script-all-info** or (**script-compile-error**, **script-export-variables**, **script-output**, **script-output-on-error**, and **script-runtime-error**).
Introduced	26.7.R1
Platforms	SAR Gen 2

script-runtime-error

Synopsis	Log information on detecting script runtime error
Context	debug python python-script *named-item* script-runtime-error
Tree	script-runtime-error
Notes	The following elements are part of a choice: **script-all-info** or (**script-compile-error**, **script-export-variables**, **script-output**, **script-output-on-error**, and **script-runtime-error**).
Introduced	26.7.R1
Platforms	SAR Gen 2

router [router-instance] *string*

Synopsis	Enter the **router** list instance
Context	debug router *string*
Tree	router
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-instance**] *string*

Synopsis	Router name or VPRN service name
Context	debug router *string*

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Tree	router
MD-CLI default	Base
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	debug router *string* dhcp
Tree	dhcp
Description	Commands in this context enable DHCP debug for all packets in the specified routing instance or VPRN service, or for specific packets matching the specific MAC addresses, SAP identifiers, or interface names. When a DHCP packet matches a specified filter and is conforming the configured debug mode for that filter, the packet debug is available in the specified detail level. DHCP debug filter criteria are applied in the following order: **1.** MAC address **2.** SAP identifier **3.** interface names **4.** all packets Up to 8 MAC address filters, 8 SAP identifier filters, 4 interface name filters, and 4 all-packet filters can be specified simultaneously across all routing instances and VPRN services.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* dhcp all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp all-packets detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp all-packets mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* dhcp interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* dhcp interface *interface-name*

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Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp interface *interface-name* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp interface *interface-name* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [address] *mac-unicast-address-no-zero*

Synopsis	Enter the **mac** list instance
Context	debug router *string* dhcp mac *mac-unicast-address-no-zero*
Tree	mac
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**address**] *mac-unicast-address-no-zero*

Synopsis	MAC address matching the client hardware address field
Context	debug router *string* dhcp mac *mac-unicast-address-no-zero*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp mac *mac-unicast-address-no-zero* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp mac *mac-unicast-address-no-zero* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

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sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	debug router *string* dhcp sap *sap*
Tree	sap
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	debug router *string* dhcp sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp sap *sap* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp sap *sap* mode *keyword*
Tree	mode

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Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-server

Synopsis	Enter the **dhcp-server** context
Context	debug router *string* dhcp-server
Tree	dhcp-server
Description	Commands in this context enable debugging for a local DHCP server.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv4 [name] *named-item*

Synopsis	Enter the **dhcpv4** list instance
Context	debug router *string* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	DHCPv4 server name
Context	debug router *string* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* dhcp-server dhcpv4 *named-item* all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp-server dhcpv4 *named-item* all-packets detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp-server dhcpv4 *named-item* all-packets mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	dropped-only
Introduced	25.3.R2
Platforms	SAR Gen 2

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lease [prefix] *ipv4-prefix*

Synopsis	Enter the **lease** list instance
Context	debug router *string* dhcp-server dhcpv4 *named-item* lease *ipv4-prefix*
Tree	lease
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv4-prefix*

Synopsis	IPv4 prefix
Context	debug router *string* dhcp-server dhcpv4 *named-item* lease *ipv4-prefix*
Tree	lease
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp-server dhcpv4 *named-item* lease *ipv4-prefix* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp-server dhcpv4 *named-item* lease *ipv4-prefix* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets

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	dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	dropped-only
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [mac-address] *mac-address*

Synopsis	Enter the **mac** list instance
Context	debug router *string* dhcp-server dhcpv4 *named-item* mac *mac-address*
Tree	mac
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-address**] *mac-address*

Synopsis	MAC address matching the client hardware address field
Context	debug router *string* dhcp-server dhcpv4 *named-item* mac *mac-address*
Tree	mac
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp-server dhcpv4 *named-item* mac *mac-address* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

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mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp-server dhcpv4 *named-item* mac *mac-address* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	dropped-only
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv6 [name] *named-item*

Synopsis	Enter the **dhcpv6** list instance
Context	debug router *string* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	DHCP server name
Context	debug router *string* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packets

Synopsis	Enable the **all-packets** context

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Context	debug router *string* dhcp-server dhcpv6 *named-item* all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp-server dhcpv6 *named-item* all-packets detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp-server dhcpv6 *named-item* all-packets mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	dropped-only
Introduced	25.3.R2
Platforms	SAR Gen 2

lease [prefix] *ipv6-prefix*

Synopsis	Enter the **lease** list instance
Context	debug router *string* dhcp-server dhcpv6 *named-item* lease *ipv6-prefix*
Tree	lease
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix
Context	debug router *string* dhcp-server dhcpv6 *named-item* lease *ipv6-prefix*
Tree	lease
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp-server dhcpv6 *named-item* lease *ipv6-prefix* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp-server dhcpv6 *named-item* lease *ipv6-prefix* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	dropped-only
Introduced	25.3.R2
Platforms	SAR Gen 2

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link-local-address [address] *ipv6-address*

Synopsis	Enter the **link-local-address** list instance
Context	debug router *string* dhcp-server dhcpv6 *named-item* link-local-address *ipv6-address*
Tree	link-local-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv6-address*

Synopsis	Link local address
Context	debug router *string* dhcp-server dhcpv6 *named-item* link-local-address *ipv6-address*
Tree	link-local-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp-server dhcpv6 *named-item* link-local-address *ipv6-address* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp-server dhcpv6 *named-item* link-local-address *ipv6-address* mode *keyword*
Tree	mode

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Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	dropped-only
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	debug router *string* dhcp6
Tree	dhcp6
Description	Commands in this context enable DHCPv6 debugging with optional interface, SAP, and client-identifier match criteria to filter debug output.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* dhcp6 all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp6 all-packets detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

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mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp6 all-packets mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

client-identifier

Synopsis	Enter the **client-identifier** context
Context	debug router *string* dhcp6 client-identifier
Tree	client-identifier
Introduced	25.3.R2
Platforms	SAR Gen 2

duid [duid] *hex-string*

Synopsis	Enter the **duid** list instance
Context	debug router *string* dhcp6 client-identifier duid *hex-string*
Tree	duid
Introduced	25.3.R2
Platforms	SAR Gen 2

[**duid**] *hex-string*

Synopsis	Client DUID to match
Context	debug router *string* dhcp6 client-identifier duid *hex-string*
Tree	duid
String length	1 to 260
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCPv6 debug output
Context	debug router *string* dhcp6 client-identifier duid *hex-string* detail-level *keyword*
Tree	detail-level
Options	high – High detail level for debugging medium – Medium detail level for debugging low – Low detail level for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *hex-string*

Synopsis	Mask for partial client DUID matching
Context	debug router *string* dhcp6 client-identifier duid *hex-string* mask *hex-string*
Tree	mask
String length	1 to 260
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCPv6 packets present in the debug output
Context	debug router *string* dhcp6 client-identifier duid *hex-string* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display ingress, egress, and dropped packets dropped-only – Display ingress, egress, and dropped packets ingress-and-dropped – Display only ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2

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Platforms	SAR Gen 2

link-layer-address [lla-id] *hex-string*

Synopsis	Enter the **link-layer-address** list instance
Context	debug router *string* dhcp6 client-identifier link-layer-address *hex-string*
Tree	link-layer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lla-id**] *hex-string*

Synopsis	Link layer address matching DUID-LLT or DUID-LL
Context	debug router *string* dhcp6 client-identifier link-layer-address *hex-string*
Tree	link-layer-address
String length	1 to 252
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp6 client-identifier link-layer-address *hex-string* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

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mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp6 client-identifier link-layer-address *hex-string* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* dhcp6 interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* dhcp6 interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp6 interface *interface-name* detail-level *keyword*
Tree	detail-level

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Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp6 interface *interface-name* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	debug router *string* dhcp6 sap *sap*
Tree	sap
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	debug router *string* dhcp6 sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail-level *keyword*

Synopsis	Detail level of the DHCP debug output
Context	debug router *string* dhcp6 sap *sap* detail-level *keyword*
Tree	detail-level
Options	high – High detail level output for debugging medium – Medium detail level output for debugging low – Low detail level output for debugging
Default	high
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	DHCP packets present in the debug output
Context	debug router *string* dhcp6 sap *sap* mode *keyword*
Tree	mode
Options	egress-ingress-and-dropped – Display egress, ingress, and dropped packets dropped-only – Display dropped packets only ingress-and-dropped – Display ingress and dropped packets
Default	egress-ingress-and-dropped
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp

Synopsis	Enter the **igmp** context
Context	debug router *string* igmp
Tree	igmp
Introduced	25.3.R2
Platforms	SAR Gen 2

group-interface

Synopsis	Enable the **group-interface** context
Context	debug router *string* igmp group-interface

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Tree	group-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

all-group-interfaces

Synopsis	Trace all interfaces
Context	debug router *string* igmp group-interface all-group-interfaces
Tree	all-group-interfaces
Notes	The following elements are part of a mandatory choice: **all-group-interfaces** or (**forwarding-service** and **group-interface-name**).
Introduced	25.3.R2
Platforms	SAR Gen 2

host

Synopsis	Enable the **host** context
Context	debug router *string* igmp host
Tree	host
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-address*

Synopsis	IP address of the host to trace
Context	debug router *string* igmp host ip-address *ipv4-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Enable the **interface** context
Context	debug router *string* igmp interface

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Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

all-interfaces

Synopsis	Trace all interfaces
Context	debug router *string* igmp interface all-interfaces
Tree	all-interfaces
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* igmp interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mcs

Synopsis	Enable the **mcs** context
Context	debug router *string* igmp mcs
Tree	mcs
Description	Commands in this context enable debugging for IGMP multicast servers.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-interfaces

Synopsis	Trace all interfaces
Context	debug router *string* igmp mcs all-interfaces
Tree	all-interfaces
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* igmp mcs interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

miscellaneous *boolean*

Synopsis	Enable tracing of miscellaneous events
Context	debug router *string* igmp miscellaneous *boolean*
Tree	miscellaneous
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug router *string* igmp packet
Tree	packet

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Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Trace all origins
Context	debug router *string* igmp packet all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dropped *boolean*

Synopsis	Enable tracing for dropped packets
Context	debug router *string* igmp packet dropped *boolean*
Tree	dropped
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

egress *boolean*

Synopsis	Enable tracing for transmitted packets
Context	debug router *string* igmp packet egress *boolean*
Tree	egress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

host-ip-address *ipv4-address*

Synopsis	Address of the host to trace
Context	debug router *string* igmp packet host-ip-address *ipv4-address*

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Tree	host-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Enable tracing for received packets
Context	debug router *string* igmp packet ingress *boolean*
Tree	ingress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-ip-address *ipv4-address*

Synopsis	Source address of the packet to trace
Context	debug router *string* igmp packet interface-ip-address *ipv4-address*
Tree	interface-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* igmp packet interface-name *interface-name*
Tree	interface-name
String length	1 to 32

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Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Packet type to trace
Context	debug router *string* igmp packet type *keyword*
Tree	type
Options	all – All IGMP packets query – IGMP Query packets v1-report – IGMP version 1 Report packets v2-report – IGMP version 2 Report packets v2-leave – IGMP version 2 Leave packets v3-report – IGMP version 3 Report packets
Default	all
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enter the **ip** context
Context	debug router *string* ip
Tree	ip
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	debug router *string* ip icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* ip icmp all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Add a list entry for **interface**
Context	debug router *string* ip icmp interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[interface-name] *interface-name*

Synopsis	Interface name
Context	debug router *string* ip icmp interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context
Context	debug router *string* ip icmp6
Tree	icmp6
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* ip icmp6 all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Add a list entry for **interface**
Context	debug router *string* ip icmp6 interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* ip icmp6 interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-events

Synopsis	Enter the **interface-events** context
Context	debug router *string* ip interface-events
Tree	interface-events
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-events

Synopsis	Enable the **all-events** context
Context	debug router *string* ip interface-events all-events
Tree	all-events
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Add a list entry for **interface**
Context	debug router *string* ip interface-events interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* ip interface-events interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	debug router *string* ip neighbor
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-events

Synopsis	Enable the **all-events** context
Context	debug router *string* ip neighbor all-events
Tree	all-events
Introduced	25.3.R2
Platforms	SAR Gen 2

address-family *keyword*

Synopsis	Debug the specified address family
Context	debug router *string* ip neighbor all-events address-family *keyword*
Tree	address-family
Options	ipv4, ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* ip neighbor interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* ip neighbor interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address-family *keyword*

Synopsis	Debug the specified address family
Context	debug router *string* ip neighbor interface *interface-name* address-family *keyword*
Tree	address-family
Options	ipv4, ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enter the **packet** context
Context	debug router *string* ip packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* ip packet all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

address-family *keyword*

Synopsis	Debug the specified address family
Context	debug router *string* ip packet all-packets address-family *keyword*
Tree	address-family
Options	ipv4, ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

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headers *boolean*

Synopsis	Display information associated with packet header only
Context	debug router *string* ip packet all-packets headers *boolean*
Tree	headers
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-id *number*

Synopsis	IP protocol ID to trace
Context	debug router *string* ip packet all-packets protocol-id *number*
Tree	protocol-id
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* ip packet interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* ip packet interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address-family *keyword*

Synopsis	Debug the specified address family
Context	debug router *string* ip packet interface *interface-name* address-family *keyword*
Tree	address-family
Options	ipv4, ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

headers *boolean*

Synopsis	Display information associated with packet header only
Context	debug router *string* ip packet interface *interface-name* headers *boolean*
Tree	headers
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-id *number*

Synopsis	IP protocol ID to trace
Context	debug router *string* ip packet interface *interface-name* protocol-id *number*
Tree	protocol-id
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table

Synopsis	Enable the **route-table** context
Context	debug router *string* ip route-table
Tree	route-table
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Allow trace for all route updates
Context	debug router *string* ip route-table all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or **filter**.
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	debug router *string* ip route-table filter
Tree	filter
Notes	The following elements are part of a mandatory choice: **all** or **filter**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	debug router *string* ip route-table filter ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [prefix] *ipv4-prefix*

Synopsis	Enter the **prefix** list instance
Context	debug router *string* ip route-table filter ipv4 prefix *ipv4-prefix*
Tree	prefix
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**prefix**] *ipv4-prefix*

Synopsis	IPv4 prefix
Context	debug router *string* ip route-table filter ipv4 prefix *ipv4-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

longest-prefix-match *boolean*

Synopsis	Allow match for greatest prefix values
Context	debug router *string* ip route-table filter ipv4 prefix *ipv4-prefix* longest-prefix-match *boolean*
Tree	longest-prefix-match
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	debug router *string* ip route-table filter ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [prefix] *ipv6-prefix*

Synopsis	Enter the **prefix** list instance
Context	debug router *string* ip route-table filter ipv6 prefix *ipv6-prefix*
Tree	prefix
Max. instances	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix
Context	debug router *string* ip route-table filter ipv6 prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

longest-prefix-match *boolean*

Synopsis	Allow match for greatest prefix values
Context	debug router *string* ip route-table filter ipv6 prefix *ipv6-prefix* longest-prefix-match *boolean*
Tree	longest-prefix-match
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-table

Synopsis	Enable the **tunnel-table** context
Context	debug router *string* ip tunnel-table
Tree	tunnel-table
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Allow trace for all tunnel updates
Context	debug router *string* ip tunnel-table all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or **filter**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	debug router *string* ip tunnel-table filter
Tree	filter
Notes	The following elements are part of a mandatory choice: **all** or **filter**.
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Enter the **id** context
Context	debug router *string* ip tunnel-table filter id
Tree	id
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-id *number*

Synopsis	SDP ID for tracing
Context	debug router *string* ip tunnel-table filter id sdp-id *number*
Tree	sdp-id
Range	1 to 32767
Notes	The following elements are part of a choice: **sdp-id** or **tunnel-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-id *number*

Synopsis	Tunnel ID for tracing
Context	debug router *string* ip tunnel-table filter id tunnel-id *number*
Tree	tunnel-id

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Max. range	0 to 4294967295
Notes	The following elements are part of a choice: **sdp-id** or **tunnel-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	debug router *string* ip tunnel-table filter ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [prefix] *ipv4-prefix*

Synopsis	Enter the **prefix** list instance
Context	debug router *string* ip tunnel-table filter ipv4 prefix *ipv4-prefix*
Tree	prefix
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix**] *ipv4-prefix*

Synopsis	IPv4 prefix
Context	debug router *string* ip tunnel-table filter ipv4 prefix *ipv4-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

longest-prefix-match *boolean*

Synopsis	Allow match for greatest prefix values

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Context	debug router *string* ip tunnel-table filter ipv4 prefix *ipv4-prefix* longest-prefix-match *boolean*
Tree	longest-prefix-match
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-type *(keyword | keyword)*

Synopsis	Tunnel type
Context	debug router *string* ip tunnel-table filter ipv4 prefix *ipv4-prefix* tunnel-type *(keyword | keyword)*
Tree	tunnel-type
Options	none, invalid, sdp, rsvp, ldp, ospf, isis, bypass, gre, bgp, sr-te, fpe, udp, ospfv3, mpls-fwd-policy, sr-policy, rib-api, bgp-epe, srv6-isis, srv6-policy, vxlan, srv6, srv6-isis-fb
Options	all
Default	all
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	debug router *string* ip tunnel-table filter ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [prefix] *ipv6-prefix*

Synopsis	Enter the **prefix** list instance
Context	debug router *string* ip tunnel-table filter ipv6 prefix *ipv6-prefix*
Tree	prefix
Max. instances	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix
Context	debug router *string* ip tunnel-table filter ipv6 prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

longest-prefix-match *boolean*

Synopsis	Allow match for greatest prefix values
Context	debug router *string* ip tunnel-table filter ipv6 prefix *ipv6-prefix* longest-prefix-match *boolean*
Tree	longest-prefix-match
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-type *(keyword | keyword)*

Synopsis	Tunnel type
Context	debug router *string* ip tunnel-table filter ipv6 prefix *ipv6-prefix* tunnel-type *(keyword | keyword)*
Tree	tunnel-type
Options	none, invalid, sdp, rsvp, ldp, ospf, isis, bypass, gre, bgp, sr-te, fpe, udp, ospfv3, mpls-fwd-policy, sr-policy, rib-api, bgp-epe, srv6-isis, srv6-policy, vxlan, srv6, srv6-isis-fb
Options	all
Default	all
Introduced	25.3.R2
Platforms	SAR Gen 2

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ldp

Synopsis	Enter the **ldp** context
Context	debug router *string* ldp
Tree	ldp
Description	Commands in this context configure LDP command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* ldp interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* ldp interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enable the **ipv4** context
Context	debug router *string* ldp interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

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event

Synopsis	Enter the **event** context
Context	debug router *string* ldp interface *interface-name* ipv4 event
Tree	event
Introduced	25.3.R2
Platforms	SAR Gen 2

messages

Synopsis	Enable the **messages** context
Context	debug router *string* ldp interface *interface-name* ipv4 event messages
Tree	messages
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enter the **packet** context
Context	debug router *string* ldp interface *interface-name* ipv4 packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

hello

Synopsis	Enable the **hello** context
Context	debug router *string* ldp interface *interface-name* ipv4 packet hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed information

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Context	debug router *string* ldp interface *interface-name* ipv4 packet hello detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enable the **ipv6** context
Context	debug router *string* ldp interface *interface-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

event

Synopsis	Enter the **event** context
Context	debug router *string* ldp interface *interface-name* ipv6 event
Tree	event
Introduced	25.3.R2
Platforms	SAR Gen 2

messages

Synopsis	Enable the **messages** context
Context	debug router *string* ldp interface *interface-name* ipv6 event messages
Tree	messages
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enter the **packet** context
Context	debug router *string* ldp interface *interface-name* ipv6 packet
Tree	packet

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Introduced	25.3.R2
Platforms	SAR Gen 2

hello

Synopsis	Enable the **hello** context
Context	debug router *string* ldp interface *interface-name* ipv6 packet hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed information
Context	debug router *string* ldp interface *interface-name* ipv6 packet hello detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer** list instance
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Introduced	25.3.R2
Platforms	SAR Gen 2

[ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer IP address
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

event

Synopsis	Enter the **event** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* event
Tree	event
Introduced	25.3.R2
Platforms	SAR Gen 2

bindings

Synopsis	Enable the **bindings** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* event bindings
Tree	bindings
Introduced	25.3.R2
Platforms	SAR Gen 2

messages

Synopsis	Enable the **messages** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* event messages
Tree	messages
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enter the **packet** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello

Synopsis	Enable the **hello** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed information
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet hello detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

init

Synopsis	Enable the **init** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet init
Tree	init
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed information
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet init detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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keepalive

Synopsis	Enable the **keepalive** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet keepalive
Tree	keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

label

Synopsis	Enable the **label** context
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet label
Tree	label
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed information
Context	debug router *string* ldp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* packet label detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mld

Synopsis	Enter the **mld** context
Context	debug router *string* mld
Tree	mld
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-interface

Synopsis	Enable the **group-interface** context
Context	debug router *string* mld group-interface
Tree	group-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

all-group-interfaces

Synopsis	Trace all interfaces
Context	debug router *string* mld group-interface all-group-interfaces
Tree	all-group-interfaces
Notes	The following elements are part of a mandatory choice: **all-group-interfaces** or (**forwarding-service** and **group-interface-name**).
Introduced	25.3.R2
Platforms	SAR Gen 2

host

Synopsis	Enable the **host** context
Context	debug router *string* mld host
Tree	host
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv6-address*

Synopsis	IP address of the host to trace
Context	debug router *string* mld host ip-address *ipv6-address*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface

Synopsis	Enable the **interface** context
Context	debug router *string* mld interface
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

all-interfaces

Synopsis	Trace all interfaces
Context	debug router *string* mld interface all-interfaces
Tree	all-interfaces
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* mld interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mcs

Synopsis	Enable the **mcs** context
Context	debug router *string* mld mcs
Tree	mcs
Introduced	25.3.R2

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Platforms	SAR Gen 2

all-interfaces

Synopsis	Trace all interfaces
Context	debug router *string* mld mcs all-interfaces
Tree	all-interfaces
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* mld mcs interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **all-interfaces** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

miscellaneous *boolean*

Synopsis	Enable the tracing of miscellaneous events
Context	debug router *string* mld miscellaneous *boolean*
Tree	miscellaneous
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug router *string* mld packet

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Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Allow trace for all origins
Context	debug router *string* mld packet all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dropped *boolean*

Synopsis	Enable tracing for dropped packets
Context	debug router *string* mld packet dropped *boolean*
Tree	dropped
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

egress *boolean*

Synopsis	Enable tracing for transmitted packets
Context	debug router *string* mld packet egress *boolean*
Tree	egress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

host-ip-address *ipv6-address*

Synopsis	Address of the host to trace

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Context	debug router *string* mld packet host-ip-address *ipv6-address*
Tree	host-ip-address
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Enable tracing for received packets
Context	debug router *string* mld packet ingress *boolean*
Tree	ingress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-ip-address *ipv6-address*

Synopsis	Source address of the packet to trace
Context	debug router *string* mld packet interface-ip-address *ipv6-address*
Tree	interface-ip-address
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* mld packet interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins**, **group-interface-name**, **host-ip-address**, **interface-ip-address**, or **interface-name**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

type *keyword*

Synopsis	Packet type
Context	debug router *string* mld packet type *keyword*
Tree	type
Options	all – All MLD packets query – MLD Query packets v1-report – MLD version 1 Report packets v2-report – MLD version 2 Report packets
Default	all
Introduced	25.3.R2
Platforms	SAR Gen 2

msdp

Synopsis	Enter the **msdp** context
Context	debug router *string* msdp
Tree	msdp
Description	Commands in this context configure debugging for the Multicast Source Discovery Protocol (MSDP).
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug router *string* msdp packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packet-types

Synopsis	Enable MSDP debugging for all packets

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Context	debug router *string* msdp packet all-packet-types
Tree	all-packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-types

Synopsis	Enter the **packet-types** context
Context	debug router *string* msdp packet packet-types
Tree	packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

keep-alive

Synopsis	Enable the **keep-alive** context
Context	debug router *string* msdp packet packet-types keep-alive
Tree	keep-alive
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer address used to trace packets
Context	debug router *string* msdp packet packet-types keep-alive peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

sa-request

Synopsis	Enable the **sa-request** context

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Context	debug router *string* msdp packet packet-types sa-request
Tree	sa-request
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer address used to trace packets
Context	debug router *string* msdp packet packet-types sa-request peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

sa-response

Synopsis	Enable the **sa-response** context
Context	debug router *string* msdp packet packet-types sa-response
Tree	sa-response
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer address used to trace packets
Context	debug router *string* msdp packet packet-types sa-response peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-active

Synopsis	Enable the **source-active** context
Context	debug router *string* msdp packet packet-types source-active
Tree	source-active

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Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer address used to trace packets
Context	debug router *string* msdp packet packet-types source-active peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

pim

Synopsis	Enable the **pim** context
Context	debug router *string* msdp pim
Tree	pim
Description	Commands in this context enable MSDP PIM debugging.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *ipv4-multicast-address*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* msdp pim group-address *ipv4-multicast-address*
Tree	group-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

rtm

Synopsis	Enable the **rtm** context

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Context	debug router *string* msdp rtm
Tree	rtm
Description	Commands in this context enable MSDP route table manager (RTM) debugging.
Introduced	25.3.R2
Platforms	SAR Gen 2

rp-address *ipv4-address*

Synopsis	IP multicast RP address used to trace events
Context	debug router *string* msdp rtm rp-address *ipv4-address*
Tree	rp-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

sa-db

Synopsis	Enable the **sa-db** context
Context	debug router *string* msdp sa-db
Tree	sa-db
Description	Commands in this context enable MSDP source-active database debugging.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *ipv4-multicast-address*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* msdp sa-db group-address *ipv4-multicast-address*
Tree	group-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Introduced	25.3.R2
Platforms	SAR Gen 2

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rp-address *ipv4-address*

Synopsis	IP multicast RP address used to trace events
Context	debug router *string* msdp sa-db rp-address *ipv4-address*
Tree	rp-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *ipv4-address*

Synopsis	Source address used to trace events
Context	debug router *string* msdp sa-db source-address *ipv4-address*
Tree	source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

mtrace

Synopsis	Enter the **mtrace** context
Context	debug router *string* mtrace
Tree	mtrace
Introduced	25.3.R2
Platforms	SAR Gen 2

miscellaneous

Synopsis	Enable the **miscellaneous** context
Context	debug router *string* mtrace miscellaneous
Tree	miscellaneous
Introduced	25.3.R2
Platforms	SAR Gen 2

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packet

Synopsis	Enable the **packet** context
Context	debug router *string* mtrace packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packet-types

Synopsis	Enable debugging for all packets
Context	debug router *string* mtrace packet all-packet-types
Tree	all-packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-types

Synopsis	Enter the **packet-types** context
Context	debug router *string* mtrace packet packet-types
Tree	packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

query *boolean*

Synopsis	Debug query packets
Context	debug router *string* mtrace packet packet-types query *boolean*
Tree	query
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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request *boolean*

Synopsis	Debug request packets
Context	debug router *string* mtrace packet packet-types request *boolean*
Tree	request
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

response *boolean*

Synopsis	Debug response packets
Context	debug router *string* mtrace packet packet-types response *boolean*
Tree	response
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mtrace2

Synopsis	Enter the **mtrace2** context
Context	debug router *string* mtrace2
Tree	mtrace2
Introduced	25.3.R2
Platforms	SAR Gen 2

miscellaneous

Synopsis	Enable the **miscellaneous** context
Context	debug router *string* mtrace2 miscellaneous
Tree	miscellaneous
Introduced	25.3.R2
Platforms	SAR Gen 2

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packet

Synopsis	Enable the **packet** context
Context	debug router *string* mtrace2 packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packet-types

Synopsis	Enable debugging for all packets
Context	debug router *string* mtrace2 packet all-packet-types
Tree	all-packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-types

Synopsis	Enter the **packet-types** context
Context	debug router *string* mtrace2 packet packet-types
Tree	packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

query *boolean*

Synopsis	Debug query packets
Context	debug router *string* mtrace2 packet packet-types query *boolean*
Tree	query
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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request *boolean*

Synopsis	Debug request packets
Context	debug router *string* mtrace2 packet packet-types request *boolean*
Tree	request
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

response *boolean*

Synopsis	Debug response packets
Context	debug router *string* mtrace2 packet packet-types response *boolean*
Tree	response
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf [ospf-instance] *number*

Synopsis	Enter the **ospf** list instance
Context	debug router *string* ospf *number*
Tree	ospf
Description	Commands in this context configure debugging for OSPF.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPF ID
Context	debug router *string* ospf *number*
Tree	ospf
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

area

Synopsis	Enable the **area** context
Context	debug router *string* ospf *number* area
Tree	area
Description	Commands in this context configure debugging for an OSPF area.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF areas
Context	debug router *string* ospf *number* area all
Tree	all
Notes	The following elements are part of a choice: **all** or **area-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

area-id *ipv4-address*

Synopsis	OSPF area ID
Context	debug router *string* ospf *number* area area-id *ipv4-address*
Tree	area-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **area-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range

Synopsis	Enable the **area-range** context
Context	debug router *string* ospf *number* area-range

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Tree	area-range
Description	Commands in this context configure debugging for an OSPF area range.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF area ranges
Context	debug router *string* ospf *number* area-range all
Tree	all
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range-address *ipv4-address*

Synopsis	OSPF area range address
Context	debug router *string* ospf *number* area-range range-address *ipv4-address*
Tree	range-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cspf

Synopsis	Enable the **cspf** context
Context	debug router *string* ospf *number* cspf
Tree	cspf
Description	Commands in this context configure debugging for an OSPF constraint-based SPF (CSPF).
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Debug all CSPFs
Context	debug router *string* ospf *number* cspf all
Tree	all
Notes	The following elements are part of a choice: **all** or **cspf-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cspf-addr *ipv4-address*

Synopsis	CSPF destination address
Context	debug router *string* ospf *number* cspf cspf-addr *ipv4-address*
Tree	cspf-addr
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **cspf-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart *boolean*

Synopsis	Debug OSPF graceful restart
Context	debug router *string* ospf *number* graceful-restart *boolean*
Tree	graceful-restart
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Enable the **interface** context
Context	debug router *string* ospf *number* interface
Tree	interface
Description	Commands in this context configure debugging for an OSPF interface.

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Introduced	25.3.R2
Platforms	SAR Gen 2

interface-ip-address *ipv4-address*

Synopsis	OSPF interface address
Context	debug router *string* ospf *number* interface interface-ip-address *ipv4-address*
Tree	interface-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **interface-ip-address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	OSPF interface name
Context	debug router *string* ospf *number* interface interface-name *string*
Tree	interface-name
Notes	The following elements are part of a choice: **interface-ip-address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

leak

Synopsis	Enable the **leak** context
Context	debug router *string* ospf *number* leak
Tree	leak
Description	Commands in this context configure debugging for OSPF leaks.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all external route leaks

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Context	debug router *string* ospf *number* leak all
Tree	all
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-addr *ipv4-address*

Synopsis	OSPF destination address
Context	debug router *string* ospf *number* leak dest-addr *ipv4-address*
Tree	dest-addr
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsdb

Synopsis	Enable the **lsdb** context
Context	debug router *string* ospf *number* lsdb
Tree	lsdb
Description	Commands in this context configure debugging for an OSPF link-state database (LSDB).
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-rtr-id *ipv4-address*

Synopsis	LSDB advertising router ID
Context	debug router *string* ospf *number* lsdb adv-rtr-id *ipv4-address*
Tree	adv-rtr-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2

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Platforms	SAR Gen 2

area *ipv4-address*

Synopsis	LSDB area ID
Context	debug router *string* ospf *number* lsdb area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ls-id *ipv4-address*

Synopsis	LSDB LS ID
Context	debug router *string* ospf *number* lsdb ls-id *ipv4-address*
Tree	ls-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ls-type *keyword*

Synopsis	LSDB type
Context	debug router *string* ospf *number* lsdb ls-type *keyword*
Tree	ls-type
Options	router, network, summary, asbr, external, nssa, link-opaque, area-opaque, as-opaque
Introduced	25.3.R2
Platforms	SAR Gen 2

misc *boolean*

Synopsis	Debug OSPF miscellaneous events
Context	debug router *string* ospf *number* misc *boolean*
Tree	misc

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enable the **neighbor** context
Context	debug router *string* ospf *number* neighbor
Tree	neighbor
Description	Commands in this context configure debugging for an OSPF neighbor.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-ip-address *ipv4-address*

Synopsis	OSPF neighbor interface address
Context	debug router *string* ospf *number* neighbor interface-ip-address *ipv4-address*
Tree	interface-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **interface-ip-address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	OSPF neighbor interface name
Context	debug router *string* ospf *number* neighbor interface-name *string*
Tree	interface-name
Notes	The following elements are part of a choice: **interface-ip-address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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nssa-range

Synopsis	Enable the **nssa-range** context
Context	debug router *string* ospf *number* nssa-range
Tree	nssa-range
Description	Commands in this context configure debugging for a Not-So-Stubby area (NSSA) range.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF NSSA ranges
Context	debug router *string* ospf *number* nssa-range all
Tree	all
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range-address *ipv4-address*

Synopsis	OSPF NSSA range address
Context	debug router *string* ospf *number* nssa-range range-address *ipv4-address*
Tree	range-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug router *string* ospf *number* packet
Tree	packet
Description	Commands in this context configure debugging for OSPF packets.

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Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Display detailed debug information
Context	debug router *string* ospf *number* packet detail *boolean*
Tree	detail
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	OSPF packet direction
Context	debug router *string* ospf *number* packet direction *keyword*
Tree	direction
Options	both, ingress, egress, dropped
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	Interface name
Context	debug router *string* ospf *number* packet interface-name *string*
Tree	interface-name
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-type *keyword*

Synopsis	Packet type
Context	debug router *string* ospf *number* packet packet-type *keyword*
Tree	packet-type
Options	hello, db-description, ls-request, ls-update, ls-ack

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Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-shortcut

Synopsis	Enable the **rsvp-shortcut** context
Context	debug router *string* ospf *number* rsvp-shortcut
Tree	rsvp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all RSVP shortcuts
Context	debug router *string* ospf *number* rsvp-shortcut all
Tree	all
Notes	The following elements are part of a choice: **all** or **rsvp-ep**.
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-ep *ipv4-address*

Synopsis	RSVP shortcut endpoint
Context	debug router *string* ospf *number* rsvp-shortcut rsvp-ep *ipv4-address*
Tree	rsvp-ep
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **rsvp-ep**.
Introduced	25.3.R2
Platforms	SAR Gen 2

rtm

Synopsis	Enable the **rtm** context
Context	debug router *string* ospf *number* rtm

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Tree	rtm
Description	Commands in this context configure debugging for the OSPF Routing Table Manager (RTM).
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug the RTM for all destinations
Context	debug router *string* ospf *number* rtm all
Tree	all
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-addr *ipv4-address*

Synopsis	RTM destination address
Context	debug router *string* ospf *number* rtm dest-addr *ipv4-address*
Tree	dest-addr
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sham-neighbor

Synopsis	Enable the **sham-neighbor** context
Context	debug router *string* ospf *number* sham-neighbor
Tree	sham-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Debug the shamlink neighbor for all addresses
Context	debug router *string* ospf *number* sham-neighbor all
Tree	all
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-addr *ipv4-address*

Synopsis	Shamlink neighbor address
Context	debug router *string* ospf *number* sham-neighbor dest-addr *ipv4-address*
Tree	dest-addr
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spf

Synopsis	Enable the **spf** context
Context	debug router *string* ospf *number* spf
Tree	spf
Description	Commands in this context configure debugging for OSPF SPF. Debug information about overall SPF start and stop times are shown. To view detailed information about calculating the SPF of a specific route, the route must be specified as an optional argument.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug the SPF for any destination address
Context	debug router *string* ospf *number* spf all

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Tree	all
Notes	The following elements are part of a choice: **all** or **destination-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-address *ipv4-address*

Synopsis	OSPF SPF destination address
Context	debug router *string* ospf *number* spf destination-address *ipv4-address*
Tree	destination-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **destination-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	OSPF SPF type
Context	debug router *string* ospf *number* spf type *keyword*
Tree	type
Options	intra-area, inter-area, external
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-endpoint

Synopsis	Enter the **tunnel-endpoint** context
Context	debug router *string* ospf *number* tunnel-endpoint
Tree	tunnel-endpoint
Description	Commands in this context configure debugging for an OSPF tunnel endpoint.
Introduced	25.3.R2
Platforms	SAR Gen 2

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leak

Synopsis	Enable the **leak** context
Context	debug router *string* ospf *number* tunnel-endpoint leak
Tree	leak
Description	Commands in this context configure debugging for OSPF tunnel-endpoint leaks.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug OSPF leaked tunnels for all tunnel endpoints
Context	debug router *string* ospf *number* tunnel-endpoint leak all
Tree	all
Notes	The following elements are part of a choice: **all** or **tunnel-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-endpoint *ipv4-address*

Synopsis	OSPF leaked tunnel endpoint
Context	debug router *string* ospf *number* tunnel-endpoint leak tunnel-endpoint *ipv4-address*
Tree	tunnel-endpoint
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **tunnel-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spf

Synopsis	Enable the **spf** context
Context	debug router *string* ospf *number* tunnel-endpoint spf
Tree	spf
Introduced	25.3.R2

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Platforms	SAR Gen 2

all

Synopsis	Debug SPF for all tunnel-endpoint destination addresses
Context	debug router *string* ospf *number* tunnel-endpoint spf all
Tree	all
Notes	The following elements are part of a choice: **all** or **spf-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-endpoint *ipv4-address*

Synopsis	SPF tunnel-endpoint destination address
Context	debug router *string* ospf *number* tunnel-endpoint spf spf-endpoint *ipv4-address*
Tree	spf-endpoint
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **spf-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-neighbor

Synopsis	Enable the **virtual-neighbor** context
Context	debug router *string* ospf *number* virtual-neighbor
Tree	virtual-neighbor
Description	Commands in this context configure debugging for an OSPF virtual neighbor.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug the virtual neighbor for all router IDs
Context	debug router *string* ospf *number* virtual-neighbor all

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Tree	all
Notes	The following elements are part of a choice: **all** or **neighbor-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-id *ipv4-address*

Synopsis	Virtual neighbor router ID
Context	debug router *string* ospf *number* virtual-neighbor neighbor-id *ipv4-address*
Tree	neighbor-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **neighbor-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf3 [ospf-instance] *number*

Synopsis	Enter the **ospf3** list instance
Context	debug router *string* ospf3 *number*
Tree	ospf3
Description	Commands in this context configure debugging for OSPF3.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPF3 ID
Context	debug router *string* ospf3 *number*
Tree	ospf3
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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area

Synopsis	Enable the **area** context
Context	debug router *string* ospf3 *number* area
Tree	area
Description	Commands in this context configure debugging for an OSPF3 area.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF3 areas
Context	debug router *string* ospf3 *number* area all
Tree	all
Notes	The following elements are part of a choice: **all** or **area-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

area-id *ipv4-address*

Synopsis	OSPF3 area ID
Context	debug router *string* ospf3 *number* area area-id *ipv4-address*
Tree	area-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **area-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range

Synopsis	Enable the **area-range** context
Context	debug router *string* ospf3 *number* area-range
Tree	area-range
Description	Commands in this context configure debugging for an OSPF3 area range.

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Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF3 area ranges
Context	debug router *string* ospf3 *number* area-range all
Tree	all
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	OSPF3 area range address
Context	debug router *string* ospf3 *number* area-range range-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	range-address
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart *boolean*

Synopsis	Debug OSPF graceful restart
Context	debug router *string* ospf3 *number* graceful-restart *boolean*
Tree	graceful-restart
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Enable the **interface** context
Context	debug router *string* ospf3 *number* interface

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Tree	interface
Description	Commands in this context configure debugging for an OSPF3 interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF3 interfaces
Context	debug router *string* ospf3 *number* interface all
Tree	all
Notes	The following elements are part of a choice: **all** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	OSPF3 interface name
Context	debug router *string* ospf3 *number* interface interface-name *string*
Tree	interface-name
Notes	The following elements are part of a choice: **all** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

leak

Synopsis	Enable the **leak** context
Context	debug router *string* ospf3 *number* leak
Tree	leak
Description	Commands in this context configure debugging for OSPF3 leaks.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all external route leaks

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Context	debug router *string* ospf3 *number* leak all
Tree	all
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-addr *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	OSPF3 destination address
Context	debug router *string* ospf3 *number* leak dest-addr *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-addr
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsdb

Synopsis	Enable the **lsdb** context
Context	debug router *string* ospf3 *number* lsdb
Tree	lsdb
Description	Commands in this context configure debugging for an OSPF3 LSDB.
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-rtr-id *ipv4-address*

Synopsis	LSDB advertising router ID
Context	debug router *string* ospf3 *number* lsdb adv-rtr-id *ipv4-address*
Tree	adv-rtr-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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area *ipv4-address*

Synopsis	LSDB area ID
Context	debug router *string* ospf3 *number* lsdb area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ls-id *ipv4-address*

Synopsis	LSDB LS ID
Context	debug router *string* ospf3 *number* lsdb ls-id *ipv4-address*
Tree	ls-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ls-type *keyword*

Synopsis	LSDB type
Context	debug router *string* ospf3 *number* lsdb ls-type *keyword*
Tree	ls-type
Options	router, network, inter-area-pfx, inter-area-rtr, nssa, intra-area-pfx, external, rtr-info-link, rtr-info-area, rtr-info-as
Introduced	25.3.R2
Platforms	SAR Gen 2

misc *boolean*

Synopsis	Debug OSPF miscellaneous events
Context	debug router *string* ospf3 *number* misc *boolean*
Tree	misc
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enable the **neighbor** context
Context	debug router *string* ospf3 *number* neighbor
Tree	neighbor
Description	Commands in this context configure debugging for an OSPF3 neighbor.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	OSPF3 neighbor interface name
Context	debug router *string* ospf3 *number* neighbor interface-name *string*
Tree	interface-name
Notes	The following elements are part of a choice: **interface-name** or **router-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *ipv4-address*

Synopsis	OSPF3 interface router ID
Context	debug router *string* ospf3 *number* neighbor router-id *ipv4-address*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **interface-name** or **router-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nssa-range

Synopsis	Enable the **nssa-range** context

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Context	debug router *string* ospf3 *number* nssa-range
Tree	nssa-range
Description	Commands in this context configure debugging for an NSSA range.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug all OSPF3 NSSA ranges
Context	debug router *string* ospf3 *number* nssa-range all
Tree	all
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	OSPF3 NSSA range address
Context	debug router *string* ospf3 *number* nssa-range range-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	range-address
Notes	The following elements are part of a choice: **all** or **range-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug router *string* ospf3 *number* packet
Tree	packet
Description	Commands in this context configure debugging for OSPF3 packets.
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail *boolean*

Synopsis	Display detailed debug information
Context	debug router *string* ospf3 *number* packet detail *boolean*
Tree	detail
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	OSPF3 packet direction
Context	debug router *string* ospf3 *number* packet direction *keyword*
Tree	direction
Options	both, ingress, egress, dropped
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *string*

Synopsis	Interface name
Context	debug router *string* ospf3 *number* packet interface-name *string*
Tree	interface-name
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-type *keyword*

Synopsis	Packet type
Context	debug router *string* ospf3 *number* packet packet-type *keyword*
Tree	packet-type
Options	hello, db-description, ls-request, ls-update, ls-ack
Introduced	25.3.R2
Platforms	SAR Gen 2

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rtm

Synopsis	Enable the **rtm** context
Context	debug router *string* ospf3 *number* rtm
Tree	rtm
Description	Commands in this context configure debugging for the OSPF3 RTM.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug the RTM for all destinations
Context	debug router *string* ospf3 *number* rtm all
Tree	all
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-addr *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	RTM destination address
Context	debug router *string* ospf3 *number* rtm dest-addr *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-addr
Notes	The following elements are part of a choice: **all** or **dest-addr**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spf

Synopsis	Enable the **spf** context
Context	debug router *string* ospf3 *number* spf
Tree	spf
Description	Commands in this context configure debugging for OSPF3 SPF. Debug information about overall SPF start and stop times are shown. To view detailed information about

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calculating the SPF of a specific route, the route must be specified as an optional argument.

Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug the SPF for all destination addresses
Context	debug router *string* ospf3 *number* spf all
Tree	all
Notes	The following elements are part of a choice: **all** or **destination-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	OSPF3 SPF destination address
Context	debug router *string* ospf3 *number* spf destination-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	destination-address
Notes	The following elements are part of a choice: **all** or **destination-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	OSPF3 SPF type
Context	debug router *string* ospf3 *number* spf type *keyword*
Tree	type
Options	intra-area, inter-area, external
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-endpoint

Synopsis	Enter the **tunnel-endpoint** context

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Context	debug router *string* ospf3 *number* tunnel-endpoint
Tree	tunnel-endpoint
Description	Commands in this context configure debugging for an OSPF3 tunnel endpoint.
Introduced	25.3.R2
Platforms	SAR Gen 2

leak

Synopsis	Enable the **leak** context
Context	debug router *string* ospf3 *number* tunnel-endpoint leak
Tree	leak
Description	Commands in this context configure debugging for OSPF3 tunnel-endpoint leaks.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug OSPF3 leaked tunnels for all tunnel endpoints
Context	debug router *string* ospf3 *number* tunnel-endpoint leak all
Tree	all
Notes	The following elements are part of a choice: **all** or **tunnel-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	OSPF3 leaked tunnel endpoint
Context	debug router *string* ospf3 *number* tunnel-endpoint leak tunnel-endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	tunnel-endpoint
Notes	The following elements are part of a choice: **all** or **tunnel-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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spf

Synopsis	Enable the **spf** context
Context	debug router *string* ospf3 *number* tunnel-endpoint spf
Tree	spf
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug SPF for all tunnel-endpoint destination addresses
Context	debug router *string* ospf3 *number* tunnel-endpoint spf all
Tree	all
Notes	The following elements are part of a choice: **all** or **spf-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	SPF tunnel-endpoint destination address
Context	debug router *string* ospf3 *number* tunnel-endpoint spf spf-endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	spf-endpoint
Notes	The following elements are part of a choice: **all** or **spf-endpoint**.
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-neighbor

Synopsis	Enable the **virtual-neighbor** context
Context	debug router *string* ospf3 *number* virtual-neighbor
Tree	virtual-neighbor
Description	Commands in this context configure debugging for an OSPF3 virtual neighbor.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all

Synopsis	Debug the virtual neighbor for all router IDs
Context	debug router *string* ospf3 *number* virtual-neighbor all
Tree	all
Notes	The following elements are part of a choice: **all** or **neighbor-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-id *ipv4-address*

Synopsis	Virtual neighbor router ID
Context	debug router *string* ospf3 *number* virtual-neighbor neighbor-id *ipv4-address*
Tree	neighbor-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **all** or **neighbor-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pim

Synopsis	Enter the **pim** context
Context	debug router *string* pim
Tree	pim
Introduced	25.3.R2
Platforms	SAR Gen 2

events

Synopsis	Enable the **events** context
Context	debug router *string* pim events
Tree	events
Introduced	25.3.R2
Platforms	SAR Gen 2

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adjacency

Synopsis	Enable the **adjacency** context
Context	debug router *string* pim events adjacency
Tree	adjacency
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Enable the **all** context
Context	debug router *string* pim events all
Tree	all
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events all detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events all group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

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Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events all source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

assert

Synopsis	Enable the **assert** context
Context	debug router *string* pim events assert
Tree	assert
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events assert detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events

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Context	debug router *string* pim events assert group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events assert source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-rp

Synopsis	Enable the **auto-rp** context
Context	debug router *string* pim events auto-rp
Tree	auto-rp
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp

Synopsis	Enable the **bgp** context
Context	debug router *string* pim events bgp
Tree	bgp
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events bgp group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	BGP peer address used to trace events
Context	debug router *string* pim events bgp peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events bgp source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

bier-inband

Synopsis	Enable the **bier-inband** context
Context	debug router *string* pim events bier-inband
Tree	bier-inband
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events bier-inband detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bsr

Synopsis	Enable the **bsr** context
Context	debug router *string* pim events bsr
Tree	bsr
Description	Commands in this context enable debugging for the PIM bootstrap mechanism.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events bsr detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

data

Synopsis	Enable the **data** context

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Context	debug router *string* pim events data
Tree	data
Description	Commands in this context enable PIM data exception debugging.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events data detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events data group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events data source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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db

Synopsis	Enable the **db** context
Context	debug router *string* pim events db
Tree	db
Description	Commands in this context enable PIM database debugging.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events db detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events db group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events db source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address

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Introduced	25.3.R2
Platforms	SAR Gen 2

dynmldp

Synopsis	Enable the **dynmldp** context
Context	debug router *string* pim events dynmldp
Tree	dynmldp
Description	Commands in this context enable dynamic MLDP debugging.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events dynmldp detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

extranet

Synopsis	Enable the **extranet** context
Context	debug router *string* pim events extranet
Tree	extranet
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events extranet detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

graft

Synopsis	Enable the **graft** context
Context	debug router *string* pim events graft
Tree	graft
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events graft detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events graft group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2

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Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events graft source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

interface

Synopsis	Enable the **interface** context
Context	debug router *string* pim events interface
Tree	interface
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim events interface interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

jp

Synopsis	Enable the **jp** context
Context	debug router *string* pim events jp
Tree	jp

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Description	Commands in this context enable debugging for PIM join and prune mechanisms.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events jp detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events jp group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events jp source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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mofrr

Synopsis	Enable the **mofrr** context
Context	debug router *string* pim events mofrr
Tree	mofrr
Description	Commands in this context enable debugging for PIM Multicast-only Fast Reroute (MoFRR).
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mrib

Synopsis	Enable the **mrib** context
Context	debug router *string* pim events mrib
Tree	mrib
Description	Commands in this context enable Multicast Routing Information Base (MRIB) debugging.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events mrib detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events mrib group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events mrib source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

msg

Synopsis	Enable the **msg** context
Context	debug router *string* pim events msg
Tree	msg
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mvpn-rtcache

Synopsis	Enable the **mvpn-rtcache** context
Context	debug router *string* pim events mvpn-rtcache
Tree	mvpn-rtcache
Description	Commands in this context enable debugging for the PIM MVPN route cache.

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Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Group address used to trace events
Context	debug router *string* pim events mvpn-rtcache group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer address used to trace events
Context	debug router *string* pim events mvpn-rtcache peer-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-address
Introduced	25.3.R2
Platforms	SAR Gen 2

red

Synopsis	Enable the **red** context
Context	debug router *string* pim events red
Tree	red
Description	Commands in this context enable debugging for PIM redundancy messages to the standby CPM.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events red detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

register

Synopsis	Enable the **register** context
Context	debug router *string* pim events register
Tree	register
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events register detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug router *string* pim events register group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2

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Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug router *string* pim events register source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

rpfv

Synopsis	Enable the **rpfv** context
Context	debug router *string* pim events rpfv
Tree	rpfv
Description	Commands in this context enable PIM RPF vector debugging.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events rpfv detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rtm

Synopsis	Enable the **rtm** context
Context	debug router *string* pim events rtm

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Tree	rtm
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events rtm detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

s-pmsi

Synopsis	Enable the **s-pmsi** context
Context	debug router *string* pim events s-pmsi
Tree	s-pmsi
Description	Commands in this context enable debugging for the PIM selective provider multicast service interface.
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug router *string* pim events s-pmsi detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

vpn-source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	VPN source address used to trace events
Context	debug router *string* pim events s-pmsi vpn-source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	vpn-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-interface

Synopsis	Enable the **tunnel-interface** context
Context	debug router *string* pim events tunnel-interface
Tree	tunnel-interface
Notes	The following elements are part of a choice: (**adjacency**, **assert**, **auto-rp**, **bgp**, **bier-inband**, **bsr**, **data**, **db**, **dynmldp**, **extranet**, **graft**, **interface**, **jp**, **mofrr**, **mrib**, **msg**, **mvpn-rtcache**, **red**, **register**, **rpfv**, **rtm**, **s-pmsi**, and **tunnel-interface**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-p2mp-id *number*

Synopsis	LDP P2MP ID
Context	debug router *string* pim events tunnel-interface ldp-p2mp-id *number*
Tree	ldp-p2mp-id
Range	1 to 8192
Introduced	25.3.R2
Platforms	SAR Gen 2

sender-address *ipv4-unicast-address*

Synopsis	IP address of the sender
Context	debug router *string* pim events tunnel-interface sender-address *ipv4-unicast-address*
Tree	sender-address

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug router *string* pim packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packet-types

Synopsis	Enable PIM debugging for all packets
Context	debug router *string* pim packet all-packet-types
Tree	all-packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress *boolean*

Synopsis	Enable tracing for transmitted packets
Context	debug router *string* pim packet egress *boolean*

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Tree	egress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Enable tracing for received packets
Context	debug router *string* pim packet ingress *boolean*
Tree	ingress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable tracing for PIM IPv4 packets
Context	debug router *string* pim packet ipv4 *boolean*
Tree	ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *boolean*

Synopsis	Enable tracing for PIM IPv6 packets
Context	debug router *string* pim packet ipv6 *boolean*
Tree	ipv6
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-types

Synopsis	Enter the **packet-types** context
Context	debug router *string* pim packet packet-types
Tree	packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

assert

Synopsis	Enable the **assert** context
Context	debug router *string* pim packet packet-types assert
Tree	assert
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types assert all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types assert interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-rp-announcement

Synopsis	Enable the **auto-rp-announcement** context
Context	debug router *string* pim packet packet-types auto-rp-announcement
Tree	auto-rp-announcement
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types auto-rp-announcement all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types auto-rp-announcement interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

auto-rp-mapping

Synopsis	Enable the **auto-rp-mapping** context
Context	debug router *string* pim packet packet-types auto-rp-mapping
Tree	auto-rp-mapping
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types auto-rp-mapping all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types auto-rp-mapping interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bsr

Synopsis	Enable the **bsr** context
Context	debug router *string* pim packet packet-types bsr

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Tree	bsr
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types bsr all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types bsr interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

crp

Synopsis	Enable the **crp** context
Context	debug router *string* pim packet packet-types crp
Tree	crp
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types crp all-origins

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Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types crp interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

graft

Synopsis	Enable the **graft** context
Context	debug router *string* pim packet packet-types graft
Tree	graft
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types graft all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name

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Context	debug router *string* pim packet packet-types graft interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

graft-ack

Synopsis	Enable the **graft-ack** context
Context	debug router *string* pim packet packet-types graft-ack
Tree	graft-ack
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types graft-ack all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types graft-ack interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello

Synopsis	Enable the **hello** context
Context	debug router *string* pim packet packet-types hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types hello all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types hello interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

jp

Synopsis	Enable the **jp** context
Context	debug router *string* pim packet packet-types jp
Tree	jp
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types jp all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types jp interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mdt-tlv

Synopsis	Enable the **mdt-tlv** context
Context	debug router *string* pim packet packet-types mdt-tlv
Tree	mdt-tlv
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types mdt-tlv all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types mdt-tlv interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

register

Synopsis	Enable the **register** context
Context	debug router *string* pim packet packet-types register
Tree	register
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types register all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types register interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

register-stop

Synopsis	Enable the **register-stop** context
Context	debug router *string* pim packet packet-types register-stop
Tree	register-stop
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Enable trace for all origins
Context	debug router *string* pim packet packet-types register-stop all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface name
Context	debug router *string* pim packet packet-types register-stop interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a choice: **all-origins** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	debug router *string* radius
Tree	radius

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Introduced	25.3.R2
Platforms	SAR Gen 2

servers

Synopsis	Enable the **servers** context
Context	debug router *string* radius servers
Tree	servers
Introduced	25.3.R2
Platforms	SAR Gen 2

attribute [name] *string*

Synopsis	Enter the **attribute** list instance
Context	debug router *string* radius servers attribute *string*
Tree	attribute
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *string*

Synopsis	Attribute filter name
Context	debug router *string* radius servers attribute *string*
Tree	attribute
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-type *number*

Synopsis	RADIUS attribute extended type
Context	debug router *string* radius servers attribute *string* extended-type *number*
Tree	extended-type

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Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

transaction *boolean*

Synopsis	Debug request and response transaction
Context	debug router *string* radius servers attribute *string* transaction *boolean*
Tree	transaction
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

type *number*

Synopsis	RADIUS attribute type
Context	debug router *string* radius servers attribute *string* type *number*
Tree	type
Range	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

value

Synopsis	Enter the **value** context
Context	debug router *string* radius servers attribute *string* value
Tree	value
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Attribute value specified as an IP address

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Context	debug router *string* radius servers attribute *string* value address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	The following elements are part of a choice: **address**, **hex**, **integer**, **prefix**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex *hex-string*

Synopsis	Attribute value specified as a hexadecimal string
Context	debug router *string* radius servers attribute *string* value hex *hex-string*
Tree	hex
String length	1 to 253
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **address**, **hex**, **integer**, **prefix**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

integer *number*

Synopsis	Attribute value specified as an integer
Context	debug router *string* radius servers attribute *string* value integer *number*
Tree	integer
Max. range	0 to 4294967295
Notes	The following elements are part of a choice: **address**, **hex**, **integer**, **prefix**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Attribute value specified as an IP prefix
Context	debug router *string* radius servers attribute *string* value prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	The following elements are part of a choice: **address**, **hex**, **integer**, **prefix**, or **string**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

string *string*

Synopsis	Attribute value specified as a string
Context	debug router *string* radius servers attribute *string* value string *string*
Tree	string
String length	1 to 253
Notes	The following elements are part of a choice: **address**, **hex**, **integer**, **prefix**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-specific

Synopsis	Enter the **vendor-specific** context
Context	debug router *string* radius servers attribute *string* vendor-specific
Tree	vendor-specific
Introduced	25.3.R2
Platforms	SAR Gen 2

encoding

Synopsis	Enter the **encoding** context
Context	debug router *string* radius servers attribute *string* vendor-specific encoding
Tree	encoding
Introduced	25.3.R2
Platforms	SAR Gen 2

length-size *number*

Synopsis	Size of the vendor-length field
Context	debug router *string* radius servers attribute *string* vendor-specific encoding length-size *number*
Tree	length-size
Range	0 to 2

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Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

type-size *number*

Synopsis	Size of the vendor-type field
Context	debug router *string* radius servers attribute *string* vendor-specific encoding type-size *number*
Tree	type-size
Range	1 to 4
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor *(number | keyword)*

Synopsis	RADIUS vendor ID
Context	debug router *string* radius servers attribute *string* vendor-specific vendor *(number | keyword)*
Tree	vendor
Range	1 to 16777215
Options	nokia
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-type *number*

Synopsis	RADIUS vendor specific type
Context	debug router *string* radius servers attribute *string* vendor-specific vendor-type *number*
Tree	vendor-type
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail-level *keyword*

Synopsis	Detail level of the RADIUS debug output
Context	debug router *string* radius servers detail-level *keyword*
Tree	detail-level
Options	low – Low detail level output for debugging medium – Medium detail level output for debugging high – High detail level output for debugging
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-types

Synopsis	Enter the **packet-types** context
Context	debug router *string* radius servers packet-types
Tree	packet-types
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting *boolean*

Synopsis	Debug accounting packets
Context	debug router *string* radius servers packet-types accounting *boolean*
Tree	accounting
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication *boolean*

Synopsis	Debug authentication packets
Context	debug router *string* radius servers packet-types authentication *boolean*
Tree	authentication
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

coa *boolean*

Synopsis	Debug CoA and DM packets
Context	debug router *string* radius servers packet-types coa *boolean*
Tree	coa
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

server-address [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **server-address**
Context	debug router *string* radius servers server-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	server-address
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the RADIUS server
Context	debug router *string* radius servers server-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	server-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp

Synopsis	Enter the **vrrp** context

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Context	debug router *string* vrrp
Tree	vrrp
Introduced	25.3.R2
Platforms	SAR Gen 2

events

Synopsis	Enter the **events** context
Context	debug router *string* vrrp events
Tree	events
Description	Commands in this context enable debugging for VRRP events and state changes.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-events

Synopsis	Enable the **all-events** context
Context	debug router *string* vrrp events all-events
Tree	all-events
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* vrrp events interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* vrrp events interface *interface-name*
Tree	interface

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String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-vrids

Synopsis	Enable the **all-vrids** context
Context	debug router *string* vrrp events interface *interface-name* all-vrids
Tree	all-vrids
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	debug router *string* vrrp events interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid [virtual-router-id] *number*

Synopsis	Add a list entry for **vrid**
Context	debug router *string* vrrp events interface *interface-name* ipv4 vrid *number*
Tree	vrid
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual router ID to debug
Context	debug router *string* vrrp events interface *interface-name* ipv4 vrid *number*

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Tree	vrid
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	debug router *string* vrrp events interface *interface-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid [virtual-router-id] *number*

Synopsis	Add a list entry for **vrid**
Context	debug router *string* vrrp events interface *interface-name* ipv6 vrid *number*
Tree	vrid
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual router ID to debug
Context	debug router *string* vrrp events interface *interface-name* ipv6 vrid *number*
Tree	vrid
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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packet

Synopsis	Enter the **packet** context
Context	debug router *string* vrrp packet
Tree	packet
Description	Commands in this context enable debugging for VRRP packet exchanges.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packets

Synopsis	Enable the **all-packets** context
Context	debug router *string* vrrp packet all-packets
Tree	all-packets
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	debug router *string* vrrp packet interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	debug router *string* vrrp packet interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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all-vrids

Synopsis	Enable the **all-vrids** context
Context	debug router *string* vrrp packet interface *interface-name* all-vrids
Tree	all-vrids
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	debug router *string* vrrp packet interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid [virtual-router-id] *number*

Synopsis	Add a list entry for **vrid**
Context	debug router *string* vrrp packet interface *interface-name* ipv4 vrid *number*
Tree	vrid
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual router ID to debug
Context	debug router *string* vrrp packet interface *interface-name* ipv4 vrid *number*
Tree	vrid
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6

Synopsis	Enter the **ipv6** context
Context	debug router *string* vrrp packet interface *interface-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

vrid [virtual-router-id] *number*

Synopsis	Add a list entry for **vrid**
Context	debug router *string* vrrp packet interface *interface-name* ipv6 vrid *number*
Tree	vrid
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual router ID to debug
Context	debug router *string* vrrp packet interface *interface-name* ipv6 vrid *number*
Tree	vrid
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

service

Synopsis	Enter the **service** context
Context	debug service
Tree	service
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpls [service-name] *service-name*

Synopsis	Enter the **vpls** list instance
Context	debug service vpls *service-name*
Tree	vpls
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	debug service vpls *service-name*
Tree	vpls
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp-snooping

Synopsis	Enter the **igmp-snooping** context
Context	debug service vpls *service-name* igmp-snooping
Tree	igmp-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug service vpls *service-name* igmp-snooping packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

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detail *keyword*

Synopsis	Detail level of the debug output
Context	debug service vpls *service-name* igmp-snooping packet detail *keyword*
Tree	detail
Options	low, medium, high
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

dropped *boolean*

Synopsis	Enable tracing for dropped packets
Context	debug service vpls *service-name* igmp-snooping packet dropped *boolean*
Tree	dropped
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

egress *boolean*

Synopsis	Enable tracing for transmitted packets
Context	debug service vpls *service-name* igmp-snooping packet egress *boolean*
Tree	egress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-mpls *boolean*

Synopsis	Allow debugging for EVPN-MPLS destinations
Context	debug service vpls *service-name* igmp-snooping packet evpn-mpls *boolean*
Tree	evpn-mpls
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Enable tracing for received packets
Context	debug service vpls *service-name* igmp-snooping packet ingress *boolean*
Tree	ingress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [mac-address] *mac-address*

Synopsis	Add a list entry for **mac**
Context	debug service vpls *service-name* igmp-snooping packet mac *mac-address*
Tree	mac
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-address**] *mac-address*

Synopsis	MAC address
Context	debug service vpls *service-name* igmp-snooping packet mac *mac-address*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Add a list entry for **sap**
Context	debug service vpls *service-name* igmp-snooping packet sap *sap*

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Tree	sap
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	debug service vpls *service-name* igmp-snooping packet sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-bind [sdp-bind-id] *sdp-bind-id*

Synopsis	Add a list entry for **sdp-bind**
Context	debug service vpls *service-name* igmp-snooping packet sdp-bind *sdp-bind-id*
Tree	sdp-bind
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP bind ID
Context	debug service vpls *service-name* igmp-snooping packet sdp-bind *sdp-bind-id*
Tree	sdp-bind
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

mld-snooping

Synopsis	Enter the **mld-snooping** context
Context	debug service vpls *service-name* mld-snooping
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug service vpls *service-name* mld-snooping packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *keyword*

Synopsis	Detail level of the debug output
Context	debug service vpls *service-name* mld-snooping packet detail *keyword*
Tree	detail
Options	low, medium, high
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

dropped *boolean*

Synopsis	Enable tracing for dropped packets
Context	debug service vpls *service-name* mld-snooping packet dropped *boolean*
Tree	dropped
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

egress *boolean*

Synopsis	Enable tracing for transmitted packets
Context	debug service vpls *service-name* mld-snooping packet egress *boolean*
Tree	egress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-mpls *boolean*

Synopsis	Allow debugging for EVPN-MPLS destinations
Context	debug service vpls *service-name* mld-snooping packet evpn-mpls *boolean*
Tree	evpn-mpls
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Enable tracing for received packets
Context	debug service vpls *service-name* mld-snooping packet ingress *boolean*
Tree	ingress
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [mac-address] *mac-address*

Synopsis	Add a list entry for **mac**
Context	debug service vpls *service-name* mld-snooping packet mac *mac-address*
Tree	mac

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Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-address**] *mac-address*

Synopsis	MAC address
Context	debug service vpls *service-name* mld-snooping packet mac *mac-address*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Add a list entry for **sap**
Context	debug service vpls *service-name* mld-snooping packet sap *sap*
Tree	sap
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	debug service vpls *service-name* mld-snooping packet sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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sdp-bind [sdp-bind-id] *sdp-bind-id*

Synopsis	Add a list entry for **sdp-bind**
Context	debug service vpls *service-name* mld-snooping packet sdp-bind *sdp-bind-id*
Tree	sdp-bind
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP bind ID
Context	debug service vpls *service-name* mld-snooping packet sdp-bind *sdp-bind-id*
Tree	sdp-bind
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

pim-snooping

Synopsis	Enter the **pim-snooping** context
Context	debug service vpls *service-name* pim-snooping
Tree	pim-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

events

Synopsis	Enable the **events** context
Context	debug service vpls *service-name* pim-snooping events
Tree	events
Introduced	25.3.R2

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Platforms	SAR Gen 2

adjacency

Synopsis	Enable the **adjacency** context
Context	debug service vpls *service-name* pim-snooping events adjacency
Tree	adjacency
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Enable the **all** context
Context	debug service vpls *service-name* pim-snooping events all
Tree	all
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug service vpls *service-name* pim-snooping events all detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug service vpls *service-name* pim-snooping events all group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

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Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug service vpls *service-name* pim-snooping events all source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

db

Synopsis	Enable the **db** context
Context	debug service vpls *service-name* pim-snooping events db
Tree	db
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug service vpls *service-name* pim-snooping events db detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events

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Context	debug service vpls *service-name* pim-snooping events db group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug service vpls *service-name* pim-snooping events db source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

jp

Synopsis	Enable the **jp** context
Context	debug service vpls *service-name* pim-snooping events jp
Tree	jp
Description	Commands in this context enable debugging for PIM join and prune mechanisms.
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug service vpls *service-name* pim-snooping events jp detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP multicast group address used to trace events
Context	debug service vpls *service-name* pim-snooping events jp group-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	group-address
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address used to trace events
Context	debug service vpls *service-name* pim-snooping events jp source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

mcs

Synopsis	Enable the **mcs** context
Context	debug service vpls *service-name* pim-snooping events mcs
Tree	mcs
Description	Commands in this context enable debugging for PIM snooping multi-chassis synchronization.
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug service vpls *service-name* pim-snooping events mcs detail *boolean*
Tree	detail
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

port

Synopsis	Enable the **port** context
Context	debug service vpls *service-name* pim-snooping events port
Tree	port
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug service vpls *service-name* pim-snooping events port detail *boolean*
Tree	detail
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-mpls

Synopsis	Enable tracing for EVPN-MPLS ports
Context	debug service vpls *service-name* pim-snooping events port evpn-mpls
Tree	evpn-mpls
Notes	The following elements are part of a mandatory choice: **evpn-mpls**, **sap-id**, **sdp-bind-id**, or (**vni** and **vtep**).
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id *sap*

Synopsis	SAP ID
Context	debug service vpls *service-name* pim-snooping events port sap-id *sap*

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Tree	sap-id
String length	1 to 45
Notes	The following elements are part of a mandatory choice: **evpn-mpls**, **sap-id**, **sdp-bind-id**, or (**vni** and **vtep**).
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-bind-id *sdp-bind-id*

Synopsis	SDP bind ID
Context	debug service vpls *service-name* pim-snooping events port sdp-bind-id *sdp-bind-id*
Tree	sdp-bind-id
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	The following elements are part of a mandatory choice: **evpn-mpls**, **sap-id**, **sdp-bind-id**, or (**vni** and **vtep**).
Introduced	25.3.R2
Platforms	SAR Gen 2

red

Synopsis	Enable the **red** context
Context	debug service vpls *service-name* pim-snooping events red
Tree	red
Description	Commands in this context enable debugging for PIM messages sent to the standby CPM.
Notes	The following elements are part of a choice: (**adjacency**, **db**, **jp**, **mcs**, **port**, and **red**) or **all**.
Introduced	25.3.R2
Platforms	SAR Gen 2

detail *boolean*

Synopsis	Enable detail tracing
Context	debug service vpls *service-name* pim-snooping events red detail *boolean*
Tree	detail

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

packet

Synopsis	Enable the **packet** context
Context	debug service vpls *service-name* pim-snooping packet
Tree	packet
Introduced	25.3.R2
Platforms	SAR Gen 2

all-origins

Synopsis	Allow tracing on all ports
Context	debug service vpls *service-name* pim-snooping packet all-origins
Tree	all-origins
Notes	The following elements are part of a choice: **all-origins** or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packet-types

Synopsis	Enable PIM debugging for all packets
Context	debug service vpls *service-name* pim-snooping packet all-packet-types
Tree	all-packet-types
Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-types

Synopsis	Enter the **packet-types** context
Context	debug service vpls *service-name* pim-snooping packet packet-types
Tree	packet-types

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Notes	The following elements are part of a choice: **all-packet-types** or **packet-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hello *boolean*

Synopsis	Debug Hello packets
Context	debug service vpls *service-name* pim-snooping packet packet-types hello *boolean*
Tree	hello
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

jp *boolean*

Synopsis	Debug join and prune packets
Context	debug service vpls *service-name* pim-snooping packet packet-types jp *boolean*
Tree	jp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port

Synopsis	Enable the **port** context
Context	debug service vpls *service-name* pim-snooping packet port
Tree	port
Notes	The following elements are part of a choice: **all-origins** or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-mpls

Synopsis	Enable tracing for EVPN-MPLS ports
Context	debug service vpls *service-name* pim-snooping packet port evpn-mpls

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Tree	evpn-mpls
Notes	The following elements are part of a mandatory choice: **evpn-mpls**, **sap-id**, **sdp-bind-id**, or (**vni** and **vtep**).
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id *sap*

Synopsis	SAP ID
Context	debug service vpls *service-name* pim-snooping packet port sap-id *sap*
Tree	sap-id
String length	1 to 45
Notes	The following elements are part of a mandatory choice: **evpn-mpls**, **sap-id**, **sdp-bind-id**, or (**vni** and **vtep**).
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-bind-id *sdp-bind-id*

Synopsis	SDP bind ID
Context	debug service vpls *service-name* pim-snooping packet port sdp-bind-id *sdp-bind-id*
Tree	sdp-bind-id
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	The following elements are part of a mandatory choice: **evpn-mpls**, **sap-id**, **sdp-bind-id**, or (**vni** and **vtep**).
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-arp

Synopsis	Enter the **proxy-arp** context
Context	debug service vpls *service-name* proxy-arp
Tree	proxy-arp
Introduced	25.3.R2

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Platforms	SAR Gen 2

all

Synopsis	Debug the proxy ARP function for all addresses
Context	debug service vpls *service-name* proxy-arp all
Tree	all
Notes	The following elements are part of a choice: **all**, **ip**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enter the **ip** context
Context	debug service vpls *service-name* proxy-arp ip
Tree	ip
Notes	The following elements are part of a choice: **all**, **ip**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv4-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **address**
Context	debug service vpls *service-name* proxy-arp ip address *ipv4-unicast-address*
Tree	address
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-unicast-address*

Synopsis	IPv4 address of the proxy ARP session to debug
Context	debug service vpls *service-name* proxy-arp ip address *ipv4-unicast-address*
Tree	address

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Enter the **mac** context
Context	debug service vpls *service-name* proxy-arp mac
Tree	mac
Notes	The following elements are part of a choice: **all**, **ip**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address [address] *mac-address*

Synopsis	Add a list entry for **address**
Context	debug service vpls *service-name* proxy-arp mac address *mac-address*
Tree	address
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *mac-address*

Synopsis	MAC address of the proxy ARP session to debug
Context	debug service vpls *service-name* proxy-arp mac address *mac-address*
Tree	address
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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proxy-nd

Synopsis	Enter the **proxy-nd** context
Context	debug service vpls *service-name* proxy-nd
Tree	proxy-nd
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Debug the proxy ND function for all addresses
Context	debug service vpls *service-name* proxy-nd all
Tree	all
Notes	The following elements are part of a choice: **all**, **ip**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enter the **ip** context
Context	debug service vpls *service-name* proxy-nd ip
Tree	ip
Notes	The following elements are part of a choice: **all**, **ip**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv6-address] *ipv6-address*

Synopsis	Add a list entry for **address**
Context	debug service vpls *service-name* proxy-nd ip address *ipv6-address*
Tree	address
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address of the proxy ND session to debug
Context	debug service vpls *service-name* proxy-nd ip address *ipv6-address*
Tree	address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Enter the **mac** context
Context	debug service vpls *service-name* proxy-nd mac
Tree	mac
Notes	The following elements are part of a choice: **all**, **ip**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address [address] *mac-address*

Synopsis	Add a list entry for **address**
Context	debug service vpls *service-name* proxy-nd mac address *mac-address*
Tree	address
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *mac-address*

Synopsis	MAC address of the proxy ND session to debug
Context	debug service vpls *service-name* proxy-nd mac address *mac-address*
Tree	address
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

stp

Synopsis	Enter the **stp** context
Context	debug service vpls *service-name* stp
Tree	stp
Introduced	25.3.R2
Platforms	SAR Gen 2

events

Synopsis	Enable the **events** context
Context	debug service vpls *service-name* stp events
Tree	events
Introduced	25.3.R2
Platforms	SAR Gen 2

all-events

Synopsis	Trace all STP events
Context	debug service vpls *service-name* stp events all-events
Tree	all-events
Notes	The following elements are part of a choice: **all-events** or **event-types**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-types

Synopsis	Enter the **event-types** context
Context	debug service vpls *service-name* stp events event-types
Tree	event-types
Notes	The following elements are part of a choice: **all-events** or **event-types**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

bpdu *boolean*

Synopsis	Trace received and transmitted BPDUs
Context	debug service vpls *service-name* stp events event-types bpdu *boolean*
Tree	bpdu
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

core-connectivity *boolean*

Synopsis	Trace STO core connectivity events
Context	debug service vpls *service-name* stp events event-types core-connectivity *boolean*
Tree	core-connectivity
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exception *boolean*

Synopsis	Trace STP exception events
Context	debug service vpls *service-name* stp events event-types exception *boolean*
Tree	exception
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fsm-state-changes *boolean*

Synopsis	Trace STP FSM state change events
Context	debug service vpls *service-name* stp events event-types fsm-state-changes *boolean*
Tree	fsm-state-changes
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

fsm-timers *boolean*

Synopsis	Trace STP FSM timer events
Context	debug service vpls *service-name* stp events event-types fsm-timers *boolean*
Tree	fsm-timers
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-role *boolean*

Synopsis	Trace STP port role events
Context	debug service vpls *service-name* stp events event-types port-role *boolean*
Tree	port-role
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-state *boolean*

Synopsis	Trace STP port state events
Context	debug service vpls *service-name* stp events event-types port-state *boolean*
Tree	port-state
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Add a list entry for **sap**
Context	debug service vpls *service-name* stp sap *sap*
Tree	sap

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Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	debug service vpls *service-name* stp sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-bind [sdp-bind-id] *sdp-bind-id*

Synopsis	Add a list entry for **sdp-bind**
Context	debug service vpls *service-name* stp sdp-bind *sdp-bind-id*
Tree	sdp-bind
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP bind ID
Context	debug service vpls *service-name* stp sdp-bind *sdp-bind-id*
Tree	sdp-bind
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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subscriber-mgmt

Synopsis	Enter the **subscriber-mgmt** context
Context	debug subscriber-mgmt
Tree	subscriber-mgmt
Introduced	25.3.R2
Platforms	SAR Gen 2

local-user-db [name] *named-item*

Synopsis	Enter the **local-user-db** list instance
Context	debug subscriber-mgmt local-user-db *named-item*
Tree	local-user-db
Max. instances	127
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Local user database name
Context	debug subscriber-mgmt local-user-db *named-item*
Tree	local-user-db
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Level of the local user database debug output
Context	debug subscriber-mgmt local-user-db *named-item* mode *keyword*
Tree	mode
Options	all – Display all lookup events failed – Display failed lookup events

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Default	failed
Introduced	25.3.R2
Platforms	SAR Gen 2

system

Synopsis	Enter the **system** context
Context	debug system
Tree	system
Description	Commands in this context enable debugging of general system level functions and router management protocols.
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc

Synopsis	Enter the **grpc** context
Context	debug system grpc
Tree	grpc
Introduced	25.3.R2
Platforms	SAR Gen 2

client

Synopsis	Enter the **client** context
Context	debug system grpc client
Tree	client
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Set debugging for all clients
Context	debug system grpc client all
Tree	all

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Notes	The following elements are part of a choice: **all** or **ip-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address for debugging
Context	debug system grpc client ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **all** or **ip-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	RPCs or service types to debug
Context	debug system grpc type *keyword*
Tree	type
Options	gnmi-capabilities, gnmi-get, gnmi-set, gnmi-subscribe, rib-api-modify, rib-api-getversion, gnoi-cert-mgmt-rpcs, gnoi-file-rpcs, gnoi-system-rpcs, custom-proto-rpcs
Max. instances	12
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc-tunnel

Synopsis	Enter the **grpc-tunnel** context
Context	debug system grpc-tunnel
Tree	grpc-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel

Synopsis	Enter the **tunnel** context

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Context	debug system grpc-tunnel tunnel
Tree	tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Set debug output for all tunnels
Context	debug system grpc-tunnel tunnel all
Tree	all
Notes	The following elements are part of a choice: **all** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *named-item*

Synopsis	Name of the tunnel to restrict the debug output
Context	debug system grpc-tunnel tunnel name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **all** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

management-interface

Synopsis	Enter the **management-interface** context
Context	debug system management-interface
Tree	management-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

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netconf *keyword*

Synopsis	Debugging verbosity for NETCONF
Context	debug system management-interface netconf *keyword*
Tree	netconf
Options	error – Error messages warning – Warning and error messages info – All messages
Introduced	25.3.R2
Platforms	SAR Gen 2

snmp *keyword*

Synopsis	Debugging verbosity for SNMP
Context	debug system management-interface snmp *keyword*
Tree	snmp
Options	error – Error messages warning – Warning and error messages info – All messages
Introduced	25.3.R2
Platforms	SAR Gen 2

persistence

Synopsis	Enable the **persistence** context
Context	debug system persistence
Tree	persistence
Introduced	26.7.R1
Platforms	SAR Gen 2

all

Synopsis	Persistence debugging for all applications
Context	debug system persistence all
Tree	all
Notes	The following elements are part of a mandatory choice: **all** or (**ancp**, **application-assurance**, **dhcp-server**, **nat-fwds**, **python-policy-cache**, and **submgt**).

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Introduced	26.7.R1
Platforms	SAR Gen 2

ancp

Synopsis	Persistence debugging for ANCP protocol
Context	debug system persistence ancp
Tree	ancp
Notes	The following elements are part of a mandatory choice: **all** or (**ancp**, **application-assurance**, **dhcp-server**, **nat-fwds**, **python-policy-cache**, and **submgt**).
Introduced	26.7.R1
Platforms	SAR Gen 2

dhcp-server

Synopsis	Persistence debugging for DHCP and DHCPv6 servers
Context	debug system persistence dhcp-server
Tree	dhcp-server
Notes	The following elements are part of a mandatory choice: **all** or (**ancp**, **application-assurance**, **dhcp-server**, **nat-fwds**, **python-policy-cache**, and **submgt**).
Introduced	26.7.R1
Platforms	SAR Gen 2

nat-fwds

Synopsis	Persistence debugging for NAT port forwarding
Context	debug system persistence nat-fwds
Tree	nat-fwds
Notes	The following elements are part of a mandatory choice: **all** or (**ancp**, **application-assurance**, **dhcp-server**, **nat-fwds**, **python-policy-cache**, and **submgt**).
Introduced	26.7.R1
Platforms	SAR Gen 2

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4.8 eth-cfm commands

```
configure
   – eth-cfm
      – apply-groups reference
      – apply-groups-exclude reference
      – domain admin-name
         – apply-groups reference
         – apply-groups-exclude reference
         – association admin-name
            – apply-groups reference
            – apply-groups-exclude reference
            – auto-mep-discovery boolean
            – bridge-identifier service-name
               – apply-groups reference
               – apply-groups-exclude reference
            – ccm-interval keyword
            – icc-based string
            – integer number
            – ma-index number
            – remote-mep number
               – apply-groups reference
               – apply-groups-exclude reference
            – string string
            – vid number
            – vpn-id string
         – dns string
         – format keyword
         – level number
         – mac string
         – md-index number
         – name string
```


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4.8.1 eth-cfm command descriptions

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** eth-cfm
Tree	eth-cfm
Description	Commands in this context configure ETH-CFM parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain [md-admin-name] *admin-name*

Synopsis	Enter the **domain** list instance
Context	**configure** eth-cfm domain *admin-name*
Tree	domain
Description	Commands in this context configure CFM domain command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**md-admin-name**] *admin-name*

Synopsis	Maintenance Domain (MD) name
Context	**configure** eth-cfm domain *admin-name*
Tree	domain
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

association [ma-admin-name] *admin-name*

Synopsis	Enter the **association** list instance

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Context	**configure** eth-cfm domain *admin-name* association *admin-name*
Tree	association
Description	Commands in this context configure the Maintenance Association (MA) for the domain.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ma-admin-name**] *admin-name*

Synopsis	Domain association name
Context	**configure** eth-cfm domain *admin-name* association *admin-name*
Tree	association
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-mep-discovery *boolean*

Synopsis	Allow remote MEP automatic discovery
Context	**configure** eth-cfm domain *admin-name* association *admin-name* auto-mep-discovery *boolean*
Tree	auto-mep-discovery
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bridge-identifier [bridge-name] *service-name*

Synopsis	Enter the **bridge-identifier** list instance
Context	**configure** eth-cfm domain *admin-name* association *admin-name* bridge-identifier *service-name*
Tree	bridge-identifier
Description	Commands in this context configure the cross-reference required to link the CFM function with the service context. The link is created when the *bridge-id*, or *bridge-name* matches the *service-id*, or *service-name*, respectively.

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Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bridge-name**] *service-name*

Synopsis	Bridge name that links to the service
Context	**configure** eth-cfm domain *admin-name* association *admin-name* bridge-identifier *service-name*
Tree	bridge-identifier
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-interval *keyword*

Synopsis	CCM transmission interval for all MEPs in association
Context	**configure** eth-cfm domain *admin-name* association *admin-name* ccm-interval *keyword*
Tree	ccm-interval
Options	300hz, 10ms, 100ms, 1s, 10s, 60s, 600s
Default	10s
Introduced	25.3.R2
Platforms	SAR Gen 2

icc-based *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance Association name in ICC-based format
Context	**configure** eth-cfm domain *admin-name* association *admin-name* icc-based *string*
Tree	icc-based

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String length	8 to 13
Notes	The following elements are part of a mandatory choice: **icc-based**, **integer**, **string**, **vid**, or **vpn-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

integer *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance Association name in integer format
Context	**configure** eth-cfm domain *admin-name* association *admin-name* integer *number*
Tree	integer
Range	0 to 65535
Notes	The following elements are part of a mandatory choice: **icc-based**, **integer**, **string**, **vid**, or **vpn-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-index *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance Association (MA) table index
Context	**configure** eth-cfm domain *admin-name* association *admin-name* ma-index *number*
Tree	ma-index
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-mep [mep-id] *number*

Synopsis	Enter the **remote-mep** list instance

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Context	**configure** eth-cfm domain *admin-name* association *admin-name* remote-mep *number*
Tree	remote-mep
Description	Commands in this context configure the remote MEP ID. Optionally, the user can configure a unicast MAC address associated with the remote MEP. This unicast value replaces the default Layer 2 class 1 multicast address that is typically associated with ETH-CC packets. **Note:** This command is not supported with subsecond CCM intervals. The unicast address may only be configured when a single remote MEP exists in the association.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mep-id**] *number*

Synopsis	Remote MEP ID
Context	**configure** eth-cfm domain *admin-name* association *admin-name* remote-mep *number*
Tree	remote-mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance Association name in raw ASCII string format
Context	**configure** eth-cfm domain *admin-name* association *admin-name* string *string*
Tree	string
String length	1 to 45
Notes	The following elements are part of a mandatory choice: **icc-based**, **integer**, **string**, **vid**, or **vpn-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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vid *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Primary VLAN ID for the Maintenance Association name
Context	**configure** eth-cfm domain *admin-name* association *admin-name* vid *number*
Tree	vid
Range	0 to 4094
Notes	The following elements are part of a mandatory choice: **icc-based**, **integer**, **string**, **vid**, or **vpn-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-id *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VPN ID for the Maintenance Association name
Context	**configure** eth-cfm domain *admin-name* association *admin-name* vpn-id *string*
Tree	vpn-id
String length	0 to 15
String format	'vpn-id' must be 6 uppercase hex digits, colon, 8 uppercase hex digits for OUI and VPN index (e.g. AABBCC:11223344)
Notes	The following elements are part of a mandatory choice: **icc-based**, **integer**, **string**, **vid**, or **vpn-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dns *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Domain name like text string derived from a DNS name
Context	**configure** eth-cfm domain *admin-name* dns *string*
Tree	dns
String length	1 to 43
Notes	The following elements are part of a mandatory choice: **dns**, **format**, **mac**, or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

format *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance domain name format type
Context	**configure** eth-cfm domain *admin-name* format *keyword*
Tree	format
Options	none
Notes	The following elements are part of a mandatory choice: **dns**, **format**, **mac**, or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance Domain Level (MD Level)
Context	**configure** eth-cfm domain *admin-name* level *number*
Tree	level
Range	0 to 7
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mac *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance domain MAC name
Context	**configure** eth-cfm domain *admin-name* mac *string*
Tree	mac
String length	13 to 23
String format	'mac' must be colon-separated hex MAC, a hyphen, then decimal 0-65535 for the 2-octet suffix (e.g. 00:11:22:33:44:55-4095)
Notes	The following elements are part of a mandatory choice: **dns**, **format**, **mac**, or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-index *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	The index of the Maintenance Domain (MD)
Context	**configure** eth-cfm domain *admin-name* md-index *number*
Tree	md-index
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

name *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maintenance Domain name
Context	**configure** eth-cfm domain *admin-name* name *string*
Tree	name

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String length	1 to 43
Notes	The following elements are part of a mandatory choice: **dns**, **format**, **mac**, or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.9 filter commands

```
configure
   – filter
      – apply-groups reference
      – apply-groups-exclude reference
      – dhcp-filter number
         – apply-groups reference
         – apply-groups-exclude reference
         – default-action
            – drop
         – description description
         – entry number
            – action
               – drop
            – apply-groups reference
            – apply-groups-exclude reference
            – option
               – absent
               – match
                  – exact boolean
                  – hex string
                  – invert boolean
                  – string string
               – number number
               – present
      – dhcp6-filter number
         – apply-groups reference
         – apply-groups-exclude reference
         – default-action
            – drop
         – description description
         – entry number
            – action
               – drop
            – apply-groups reference
            – apply-groups-exclude reference
            – option
               – absent
               – match
                  – exact boolean
                  – hex string
                  – invert boolean
                  – string string
               – number number
               – present
      – ip-exception filter-name
         – apply-groups reference
         – apply-groups-exclude reference
         – description description
         – entry number
            – apply-groups reference
            – apply-groups-exclude reference
            – description description
            – match
               – dst-ip
                  – address (ipv4-prefix-with-host-bits | ipv4-address)
                  – mask ipv4-address
               – dst-port
                  – eq number
                  – gt number
```


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configure filter ip-exception entry match dst-port lt

```
                  - lt number
                  - range
                     - end number
                     - start number
               - icmp
                  - code number
                  - type number
               - protocol (number | keyword)
               - src-ip
                  - address (ipv4-prefix-with-host-bits | ipv4-address)
                  - mask ipv4-address
               - src-port
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
      - filter-id number
   - ip-filter filter-name
      - apply-groups reference
      - apply-groups-exclude reference
      - chain-to-system-filter boolean
      - default-action keyword
      - description description
      - embed
         - filter reference offset number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
      - entry number
         - action
            - accept
            - apply-groups reference
            - apply-groups-exclude reference
            - drop
            - drop-when
               - extracted-traffic
               - packet-length
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
               - ttl
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
            - forward
               - next-hop
                  - nh-ip
                     - address ipv4-address
                     - indirect boolean
                  - nh-ip-vrf
                     - address ipv4-address
                     - indirect boolean
                     - router-instance string
               - redirect-policy reference
               - router-instance string
            - ignore-match
```


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configure filter ip-filter entry action nat

```
            - nat
               - nat-policy reference
            - rate-limit
               - packet-length
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
               - pir (number | keyword)
               - policer named-item
               - ttl
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
            - reassemble
            - secondary
               - apply-groups reference
               - apply-groups-exclude reference
               - forward
                  - next-hop
                     - nh-ip-vrf
                        - address ipv4-address
                        - indirect boolean
                        - router-instance string
            - tcp-mss-adjust
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - egress-pbr keyword
         - log reference
         - match
            - dscp keyword
            - dst-ip
               - address (ipv4-prefix-with-host-bits | ipv4-address)
               - ip-prefix-list reference
               - mask ipv4-address
            - dst-port
               - eq number
               - gt number
               - lt number
               - port-list reference
               - range
                  - end number
                  - start number
            - fragment keyword
            - icmp
               - code number
               - type number
            - ip
               - address (ipv4-prefix-with-host-bits | ipv4-address)
               - ip-prefix-list reference
               - mask ipv4-address
            - ip-option
               - mask number
               - type number
            - multiple-option boolean
            - option-present boolean
            - port
               - eq number
```


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configure filter ip-filter entry match port gt

```
                  - gt number
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
               - protocol (number | keyword)
               - protocol-list reference
               - src-ip
                  - address (ipv4-prefix-with-host-bits | ipv4-address)
                  - ip-prefix-list reference
                  - mask ipv4-address
               - src-port
                  - eq number
                  - gt number
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
               - src-route-option boolean
               - tcp-established
               - tcp-flags
                  - ack boolean
                  - cwr boolean
                  - ece boolean
                  - fin boolean
                  - ns boolean
                  - psh boolean
                  - rst boolean
                  - syn boolean
                  - urg boolean
            - pbr-down-action-override keyword
            - sticky-dest (number | keyword)
         - filter-id number
         - scope keyword
      - ipv6-exception filter-name
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - match
               - dst-ip
                  - address (ipv6-prefix-with-host-bits | ipv6-address)
                  - ipv6-prefix-list reference
                  - mask ipv6-address
               - dst-port
                  - eq number
                  - gt number
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
               - icmp
                  - code number
                  - type number
               - next-header (number | keyword)
               - port
                  - eq number
                  - gt number
```


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configure filter ipv6-exception entry match port lt

```
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
               - src-ip
                  - address (ipv6-prefix-with-host-bits | ipv6-address)
                  - ipv6-prefix-list reference
                  - mask ipv6-address
               - src-port
                  - eq number
                  - gt number
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
      - filter-id number
   - ipv6-filter filter-name
      - apply-groups reference
      - apply-groups-exclude reference
      - chain-to-system-filter boolean
      - default-action keyword
      - description description
      - embed
         - filter reference offset number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
      - entry number
         - action
            - accept
            - apply-groups reference
            - apply-groups-exclude reference
            - drop
            - drop-when
               - extracted-traffic
               - hop-limit
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
               - payload-length
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
            - forward
               - next-hop
                  - nh-ip
                     - address ipv6-address
                     - indirect boolean
                  - nh-ip-vrf
                     - address ipv6-address
                     - indirect boolean
                     - router-instance string
               - redirect-policy reference
               - router-instance string
            - ignore-match
            - rate-limit
```


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configure filter ipv6-filter entry action rate-limit hop-limit

```
                - hop-limit
                   - eq number
                   - gt number
                   - lt number
                   - range
                      - end number
                      - start number
                - payload-length
                   - eq number
                   - gt number
                   - lt number
                   - range
                      - end number
                      - start number
                - pir (number | keyword)
                - policer named-item
             - secondary
                - apply-groups reference
                - apply-groups-exclude reference
                - forward
                   - next-hop
                      - nh-ip-vrf
                         - address ipv6-address
                         - indirect boolean
                         - router-instance string
             - tcp-mss-adjust
          - apply-groups reference
          - apply-groups-exclude reference
          - description description
          - egress-pbr keyword
          - log reference
          - match
             - dscp keyword
             - dst-ip
                - address (ipv6-prefix-with-host-bits | ipv6-address)
                - ipv6-prefix-list reference
                - mask ipv6-address
             - dst-port
                - eq number
                - gt number
                - lt number
                - port-list reference
                - range
                   - end number
                   - start number
             - extension-header
                - ah boolean
                - esp boolean
                - hop-by-hop boolean
                - routing-type0 boolean
             - flow-label
                - mask number
                - value number
             - fragment keyword
             - icmp
                - code number
                - type number
             - ip
                - address (ipv6-prefix-with-host-bits | ipv6-address)
                - ipv6-prefix-list reference
                - mask ipv6-address
             - next-header (number | keyword)
             - next-header-list reference
             - port
```


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```
                  - eq number
                  - gt number
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
               - src-ip
                  - address (ipv6-prefix-with-host-bits | ipv6-address)
                  - ipv6-prefix-list reference
                  - mask ipv6-address
               - src-port
                  - eq number
                  - gt number
                  - lt number
                  - port-list reference
                  - range
                     - end number
                     - start number
               - tcp-established
               - tcp-flags
                  - ack boolean
                  - cwr boolean
                  - ece boolean
                  - fin boolean
                  - ns boolean
                  - psh boolean
                  - rst boolean
                  - syn boolean
                  - urg boolean
            - pbr-down-action-override keyword
            - sticky-dest (number | keyword)
         - filter-id number
         - scope keyword
      - log number
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description-or-empty
         - destination
            - memory
               - max-entries number
               - stop-on-full boolean
            - syslog
               - name reference
               - summary
                  - admin-state keyword
                  - summary-crit keyword
      - match-list
         - apply-groups reference
         - apply-groups-exclude reference
         - ip-prefix-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - apply-path
               - bgp-peers number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - group regular-expression-not-all-spaces
                  - neighbor regular-expression-not-all-spaces
                  - router-instance string
                  - service-name-match regular-expression-not-all-spaces
               - interfaces number
                  - apply-groups reference
```


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configure filter match-list ip-prefix-list apply-path interfaces apply-groups-exclude

```
                  - apply-groups-exclude reference
                  - interface regular-expression-not-all-spaces
                  - router-instance string
                  - service-name-match regular-expression-not-all-spaces
            - description description
            - prefix ipv4-prefix
            - prefix-exclude ipv4-prefix
         - ipv6-prefix-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - apply-path
               - bgp-peers number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - group regular-expression-not-all-spaces
                  - neighbor regular-expression-not-all-spaces
                  - router-instance string
                  - service-name-match regular-expression-not-all-spaces
               - interfaces number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - interface regular-expression-not-all-spaces
                  - router-instance string
                  - service-name-match regular-expression-not-all-spaces
            - description description
            - prefix ipv6-prefix
            - prefix-exclude ipv6-prefix
         - port-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - port number
            - range start number end number
         - protocol-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - protocol (number | keyword)
      - md-auto-id
         - filter-id-range
            - apply-groups reference
            - apply-groups-exclude reference
            - end number
            - start number
      - policer named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - mbs (number | keyword)
         - pir number
         - scope keyword
      - redirect-policy named-item
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - destination (ipv4-address-no-zone | ipv6-address-no-zone)
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - ping-test
               - apply-groups reference
               - apply-groups-exclude reference
```


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configure filter redirect-policy destination ping-test drop-count

```
            - drop-count number
            - hold-down number
            - interval number
            - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - timeout number
         - priority number
         - unicast-rt-test
      - notify-dest-change boolean
      - router-instance string
      - sticky-dest (number | keyword)
   - redirect-policy-binding named-item
      - apply-groups reference
      - apply-groups-exclude reference
      - binding-operator keyword
      - redirect-policy reference
         - apply-groups reference
         - apply-groups-exclude reference
         - destination reference
   - system-filter
      - apply-groups reference
      - apply-groups-exclude reference
      - ip reference
      - ipv6 reference
```


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4.9.1 filter command descriptions

filter

Synopsis	Enter the **filter** context
Context	**configure** filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-filter [filter-id] *number*

Synopsis	Enter the **dhcp-filter** list instance
Context	**configure** filter dhcp-filter *number*
Tree	dhcp-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-id**] *number*

Synopsis	DHCP filter policy ID
Context	**configure** filter dhcp-filter *number*
Tree	dhcp-filter
Description	This command specifies the DHCP filter policy ID expressed as a decimal integer.
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action

Synopsis	Enable the **default-action** context
Context	**configure** filter dhcp-filter *number* default-action
Tree	default-action

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Introduced	25.3.R2
Platforms	SAR Gen 2

drop

Synopsis	DHCP host creation when the filter entry is matched
Context	**configure** filter dhcp-filter *number* default-action drop
Tree	drop
Notes	The following elements are part of a mandatory choice: **bypass-host-creation** or **drop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter dhcp-filter *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** filter dhcp-filter *number* entry *number*
Tree	entry
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	DHCP filter entry ID

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Context	**configure** filter dhcp-filter *number* entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enable the **action** context
Context	**configure** filter dhcp-filter *number* entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

drop

Synopsis	DHCP host creation when the filter entry is matched
Context	**configure** filter dhcp-filter *number* entry *number* action drop
Tree	drop
Notes	The following elements are part of a mandatory choice: **bypass-host-creation** or **drop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

option

Synopsis	Enable the **option** context
Context	**configure** filter dhcp-filter *number* entry *number* option
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

absent

Synopsis	Require the absence of related option

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Context	**configure** filter dhcp-filter *number* entry *number* option absent
Tree	absent
Notes	The following elements are part of a mandatory choice: **absent**, **match**, or **present**.
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enable the **match** context
Context	**configure** filter dhcp-filter *number* entry *number* option match
Tree	match
Notes	The following elements are part of a mandatory choice: **absent**, **match**, or **present**.
Introduced	25.3.R2
Platforms	SAR Gen 2

exact *boolean*

Synopsis	Use an exact match pattern (not partial)
Context	**configure** filter dhcp-filter *number* entry *number* option match exact *boolean*
Tree	exact
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

hex *string*

Synopsis	Matching pattern for the filtered option
Context	**configure** filter dhcp-filter *number* entry *number* option match hex *string*
Tree	hex
String length	1 to 256
String format	'hex' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **hex** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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invert *boolean*

Synopsis	Invert (partial) matching criteria
Context	**configure** filter dhcp-filter *number* entry *number* option match invert *boolean*
Tree	invert
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	Matching pattern for the filtered option
Context	**configure** filter dhcp-filter *number* entry *number* option match string *string*
Tree	string
String length	1 to 127
Notes	The following elements are part of a mandatory choice: **hex** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number for DHCP or DHCPv6 option to filter on
Context	**configure** filter dhcp-filter *number* entry *number* option number *number*
Tree	number
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

present

Synopsis	Require the presence of related option
Context	**configure** filter dhcp-filter *number* entry *number* option present
Tree	present
Notes	The following elements are part of a mandatory choice: **absent**, **match**, or **present**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6-filter [filter-id] *number*

Synopsis	Enter the **dhcp6-filter** list instance
Context	**configure** filter dhcp6-filter *number*
Tree	dhcp6-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-id**] *number*

Synopsis	DHCP filter policy ID
Context	**configure** filter dhcp6-filter *number*
Tree	dhcp6-filter
Description	This command specifies the DHCP filter policy ID expressed as a decimal integer.
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action

Synopsis	Enable the **default-action** context
Context	**configure** filter dhcp6-filter *number* default-action
Tree	default-action
Description	Commands in this context enable the default action for DHCP6 filters when no entries match.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop

Synopsis	Drop DHCPv6 message (do not process)

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Context	**configure** filter dhcp6-filter *number* default-action drop
Tree	drop
Notes	The following elements are part of a mandatory choice: **bypass-host-authentication**, **bypass-host-creation**, or **drop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter dhcp6-filter *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** filter dhcp6-filter *number* entry *number*
Tree	entry
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	DHCP filter entry ID
Context	**configure** filter dhcp6-filter *number* entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

action

Synopsis	Enable the **action** context
Context	**configure** filter dhcp6-filter *number* entry *number* action
Tree	action
Description	Commands in this context enable the action to take on DHCP6 host creation when the filter entry matches.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop

Synopsis	Drop DHCPv6 message (do not process)
Context	**configure** filter dhcp6-filter *number* entry *number* action drop
Tree	drop
Notes	The following elements are part of a mandatory choice: **bypass-host-authentication**, **bypass-host-creation**, or **drop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

option

Synopsis	Enable the **option** context
Context	**configure** filter dhcp6-filter *number* entry *number* option
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

absent

Synopsis	Require the absence of related option
Context	**configure** filter dhcp6-filter *number* entry *number* option absent
Tree	absent
Notes	The following elements are part of a mandatory choice: **absent**, **match**, or **present**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enable the **match** context
Context	**configure** filter dhcp6-filter *number* entry *number* option match
Tree	match
Notes	The following elements are part of a mandatory choice: **absent**, **match**, or **present**.
Introduced	25.3.R2
Platforms	SAR Gen 2

exact *boolean*

Synopsis	Use an exact match pattern (not partial)
Context	**configure** filter dhcp6-filter *number* entry *number* option match exact *boolean*
Tree	exact
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

hex *string*

Synopsis	Matching pattern for the filtered option
Context	**configure** filter dhcp6-filter *number* entry *number* option match hex *string*
Tree	hex
String length	1 to 256
String format	'hex' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **hex** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

invert *boolean*

Synopsis	Invert (partial) matching criteria

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Context	**configure** filter dhcp6-filter *number* entry *number* option match invert *boolean*
Tree	invert
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	Matching pattern for the filtered option
Context	**configure** filter dhcp6-filter *number* entry *number* option match string *string*
Tree	string
String length	1 to 127
Notes	The following elements are part of a mandatory choice: **hex** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number for DHCP or DHCPv6 option to filter on
Context	**configure** filter dhcp6-filter *number* entry *number* option number *number*
Tree	number
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

present

Synopsis	Require the presence of related option
Context	**configure** filter dhcp6-filter *number* entry *number* option present
Tree	present
Notes	The following elements are part of a mandatory choice: **absent**, **match**, or **present**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-exception [filter-name] *filter-name*

Synopsis	Enter the **ip-exception** list instance
Context	**configure** filter ip-exception *filter-name*
Tree	ip-exception
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *filter-name*

Synopsis	Filter name
Context	**configure** filter ip-exception *filter-name*
Tree	ip-exception
String length	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ip-exception *filter-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** filter ip-exception *filter-name* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**entry-id**] *number*

Synopsis	ID for a match criteria and the corresponding action
Context	**configure** filter ip-exception *filter-name* entry *number*
Tree	entry
Range	1 to 2097151
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ip-exception *filter-name* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** filter ip-exception *filter-name* entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	IP address to match
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	Mask applied as an AND to the IP address
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact match criterion
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535

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Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than match criterion for the port number
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than match criterion for the port
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

Synopsis	Upper bound of the port range to match
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range to match
Context	**configure** filter ip-exception *filter-name* entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** filter ip-exception *filter-name* entry *number* match icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

code *number*

Synopsis	ICMP code value to match
Context	**configure** filter ip-exception *filter-name* entry *number* match icmp code *number*
Tree	code
Description	This command specifies the ICMP code value that must be present to match. The system matches on ICMP code or ICMP type, or on both values.

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An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP code value of 0 match criterion may match non initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.

Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *number*

Synopsis	ICMP type value to match
Context	**configure** filter ip-exception *filter-name* entry *number* match icmp type *number*
Tree	type
Description	This command specifies the ICMP type value that must be present to match. The system matches on ICMP code or ICMP type, or on both values. An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP type value of 0 match criterion may match non initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol as the match criterion
Context	**configure** filter ip-exception *filter-name* entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

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src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** filter ip-exception *filter-name* entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	IP address to match
Context	**configure** filter ip-exception *filter-name* entry *number* match src-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	Mask applied as an AND to the IP address
Context	**configure** filter ip-exception *filter-name* entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** filter ip-exception *filter-name* entry *number* match src-port
Tree	src-port
Introduced	25.3.R2

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Platforms	SAR Gen 2

eq *number*

Synopsis	Exact match criterion
Context	**configure** filter ip-exception *filter-name* entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than match criterion for the port number
Context	**configure** filter ip-exception *filter-name* entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than match criterion for the port
Context	**configure** filter ip-exception *filter-name* entry *number* match src-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context

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Context	**configure** filter ip-exception *filter-name* entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range to match
Context	**configure** filter ip-exception *filter-name* entry *number* match src-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range to match
Context	**configure** filter ip-exception *filter-name* entry *number* match src-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

filter-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Filter ID
Context	**configure** filter ip-exception *filter-name* filter-id *number*
Tree	filter-id

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Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-filter [filter-name] *filter-name*

Synopsis	Enter the **ip-filter** list instance
Context	**configure** filter ip-filter *filter-name*
Tree	ip-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *filter-name*

Synopsis	Filter name
Context	**configure** filter ip-filter *filter-name*
Tree	ip-filter
String length	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

chain-to-system-filter *boolean*

Synopsis	Chain filter policy to the active IPvX system filter policy
Context	**configure** filter ip-filter *filter-name* chain-to-system-filter *boolean*
Tree	chain-to-system-filter
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Action for packets that do not match any entry
Context	**configure** filter ip-filter *filter-name* default-action *keyword*

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Tree	default-action
Options	drop, accept
Default	drop
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ip-filter *filter-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

embed

Synopsis	Enter the **embed** context
Context	**configure** filter ip-filter *filter-name* embed
Tree	embed
Description	Commands in this context configure filter policy embedding. A previously defined IPv4 embedded filter policy or Hybrid OpenFlow switch instance can be embedded into an exclusive, template, or system filter policy at the specified offset value. Rules derived from BGP FlowSpec can also be embedded into template filter policies only.
Introduced	25.3.R2
Platforms	SAR Gen 2

filter [name] *reference* offset *number*

Synopsis	Enter the **filter** list instance
Context	**configure** filter ip-filter *filter-name* embed filter *reference* offset *number*
Tree	filter
Description	Commands in this context embed a previously defined IPv4 filter policy into the filter policy at the specified offset value.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	IPv4 policy to be embedded in the filter
Context	**configure** filter ip-filter *filter-name* embed filter *reference* offset *number*
Tree	filter
Reference	**configure** filter ip-filter *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

offset *number*

Synopsis	Offset of the embedded filter policy
Context	**configure** filter ip-filter *filter-name* embed filter *reference* offset *number*
Tree	filter
Description	This command configures the offset of the embedded filter policy. The embedded filter entry X has an entry X + offset in the embedding filter.
Range	0 to 2097150
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the embedded filter
Context	**configure** filter ip-filter *filter-name* embed filter *reference* offset *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** filter ip-filter *filter-name* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	ID for a match criteria and the corresponding action
Context	**configure** filter ip-filter *filter-name* entry *number*
Tree	entry
Range	1 to 2097151
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enable the **action** context
Context	**configure** filter ip-filter *filter-name* entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

accept

Synopsis	Accept regular routing to forward a matching packet
Context	**configure** filter ip-filter *filter-name* entry *number* action accept
Tree	accept
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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drop

Synopsis	Drop a packet matching this entry
Context	**configure** filter ip-filter *filter-name* entry *number* action drop
Tree	drop
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-when

Synopsis	Enable the **drop-when** context
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when
Tree	drop-when
Introduced	25.3.R2
Platforms	SAR Gen 2

extracted-traffic

Synopsis	Drop traffic extracted to CPM
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when extracted-traffic
Tree	extracted-traffic
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-length

Synopsis	Enable the **packet-length** context
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length
Tree	packet-length
Notes	The following elements are part of a choice: **packet-length** or **ttl**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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eq *number*

Synopsis	Exact match criterion for the length
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than match criterion for the length
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than match criterion for the length
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context

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Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length range
Tree	range
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the length range
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the length range
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when packet-length range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl

Synopsis	Enable the **ttl** context
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl
Tree	ttl
Notes	The following elements are part of a choice: **packet-length** or **ttl**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

eq *number*

Synopsis	Equal to condition match value
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl eq *number*
Tree	eq
Range	0 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than condition match value
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl gt *number*
Tree	gt
Range	0 to 254
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than condition match value
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl lt *number*
Tree	lt
Range	1 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context

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Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl range
Tree	range
Description	This command in this context specify an inclusive range. When range is used, the start of the range (the first value entered) must be smaller than the end of the range (the second value entered).
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the range
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl range end *number*
Tree	end
Range	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the range
Context	**configure** filter ip-filter *filter-name* entry *number* action drop-when ttl range start *number*
Tree	start
Range	0 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

forward

Synopsis	Enter the **forward** context
Context	**configure** filter ip-filter *filter-name* entry *number* action forward
Tree	forward

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Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enable the **next-hop** context
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop
Tree	next-hop
Notes	The following elements are part of a choice: **bonding-connection**, **esi-l2**, **esi-l3**, **gre-tunnel**, **lsp**, **mpls-policy**, **next-hop**, **redirect-policy**, **router-instance**, **sap**, **sdp**, **srte-policy**, **srv6-policy**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nh-ip

Synopsis	Enable the **nh-ip** context
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip
Tree	nh-ip
Notes	The following elements are part of a mandatory choice: **interface-name**, **nh-ip**, or **nh-ip-vrf**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 address of next hop to forward matching packets
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip address *ipv4-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone)

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	'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *boolean*

Synopsis	Allow next hop to be indirectly reachable
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip indirect *boolean*
Tree	indirect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nh-ip-vrf

Synopsis	Enable the **nh-ip-vrf** context
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf
Tree	nh-ip-vrf
Notes	The following elements are part of a mandatory choice: **interface-name**, **nh-ip**, or **nh-ip-vrf**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 address of next hop to forward matching packets
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf address *ipv4-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *boolean*

Synopsis	Allow next hop to be indirectly reachable
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf indirect *boolean*
Tree	indirect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Routing context for route lookup for forwarding packets
Context	**configure** filter ip-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf router-instance *string*
Tree	router-instance
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

redirect-policy *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Next hop or forward next hop router that forwards a packet that matches this entry
Context	**configure** filter ip-filter *filter-name* entry *number* action forward redirect-policy *reference*
Tree	redirect-policy

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Reference	**configure** filter redirect-policy *named-item*
Notes	The following elements are part of a choice: **bonding-connection**, **esi-l2**, **esi-l3**, **gre-tunnel**, **lsp**, **mpls-policy**, **next-hop**, **redirect-policy**, **router-instance**, **sap**, **sdp**, **srte-policy**, **srv6-policy**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Router name or VPRN service name
Context	**configure** filter ip-filter *filter-name* entry *number* action forward router-instance *string*
Tree	router-instance
Notes	The following elements are part of a choice: **bonding-connection**, **esi-l2**, **esi-l3**, **gre-tunnel**, **lsp**, **mpls-policy**, **next-hop**, **redirect-policy**, **router-instance**, **sap**, **sdp**, **srte-policy**, **srv6-policy**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-match

Synopsis	Ignore match criteria for the entry
Context	**configure** filter ip-filter *filter-name* entry *number* action ignore-match
Tree	ignore-match
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enable the **nat** context
Context	**configure** filter ip-filter *filter-name* entry *number* action nat
Tree	nat

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Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-policy *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	NAT policy name when action is NAT
Context	**configure** filter ip-filter *filter-name* entry *number* action nat nat-policy *reference*
Tree	nat-policy
Reference	**configure** service nat nat-policy *external-named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

rate-limit

Synopsis	Enable the **rate-limit** context
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit
Tree	rate-limit
Description	Commands in this context configure the rate-limit action for traffic that matches this filter entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-length

Synopsis	Enable the **packet-length** context
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length
Tree	packet-length
Notes	The following elements are part of a choice: **packet-length** or **ttl**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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eq *number*

Synopsis	Exact match criterion for the length
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than match criterion for the length
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than match criterion for the length
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context

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Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length range
Tree	range
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the length range
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the length range
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit packet-length range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Peak information rate
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit pir *(number | keyword)*
Tree	pir
Range	0 to 2000000000
Units	kilobps

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Options	max
Notes	The following elements are part of a mandatory choice: **pir**, **policer**, or **pps-pir**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *named-item*

Synopsis	Policer name to use for rate limiting traffic
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit policer *named-item*
Tree	policer
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **pir**, **policer**, or **pps-pir**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl

Synopsis	Enable the **ttl** context
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl
Tree	ttl
Notes	The following elements are part of a choice: **packet-length** or **ttl**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Equal to condition match value
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl eq *number*
Tree	eq
Range	0 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gt *number*

Synopsis	Greater than condition match value
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl gt *number*
Tree	gt
Range	0 to 254
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than condition match value
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl lt *number*
Tree	lt
Range	1 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl range
Tree	range
Description	This command in this context specify an inclusive range. When range is used, the start of the range (the first value entered) must be smaller than the end of the range (the second value entered).
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the range

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Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl range end *number*
Tree	end
Range	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the range
Context	**configure** filter ip-filter *filter-name* entry *number* action rate-limit ttl range start *number*
Tree	start
Range	0 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

reassemble

Synopsis	Forward matching packets to reassembly function
Context	**configure** filter ip-filter *filter-name* entry *number* action reassemble
Tree	reassemble
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary

Synopsis	Enable the **secondary** context
Context	**configure** filter ip-filter *filter-name* entry *number* action secondary
Tree	secondary
Introduced	25.3.R2
Platforms	SAR Gen 2

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forward

Synopsis	Enter the **forward** context
Context	**configure** filter ip-filter *filter-name* entry *number* action secondary forward
Tree	forward
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enable the **next-hop** context
Context	**configure** filter ip-filter *filter-name* entry *number* action secondary forward next-hop
Tree	next-hop
Notes	The following elements are part of a choice: **next-hop**, **sap**, **sdp**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nh-ip-vrf

Synopsis	Enable the **nh-ip-vrf** context
Context	**configure** filter ip-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf
Tree	nh-ip-vrf
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 address of next hop to forward matching packets

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Context	**configure** filter ip-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf address *ipv4-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *boolean*

Synopsis	Allow next hop to be indirectly reachable
Context	**configure** filter ip-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf indirect *boolean*
Tree	indirect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Routing context for route lookup for forwarding packets
Context	**configure** filter ip-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf router-instance *string*
Tree	router-instance
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss-adjust

Synopsis	Adjust MSS option of TCP matching packets to configured value of tcp-mss in router interface context

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Context	**configure** filter ip-filter *filter-name* entry *number* action tcp-mss-adjust
Tree	tcp-mss-adjust
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **gtp-local-breakout**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ip-filter *filter-name* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-pbr *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	PBR that has an effect when this filter is applied on egress
Context	**configure** filter ip-filter *filter-name* entry *number* egress-pbr *keyword*
Tree	egress-pbr
Options	true, true-with-l4lb
Introduced	25.3.R2
Platforms	SAR Gen 2

log *reference*

Synopsis	Log that is used for packets matching this entry
Context	**configure** filter ip-filter *filter-name* entry *number* log *reference*
Tree	log
Reference	**configure** filter log *number*

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Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** filter ip-filter *filter-name* entry *number* match
Tree	match
Description	Commands in this context configure match criteria for the filter entry. When the match criteria are satisfied, the action associated with the match criteria is executed.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP used as an IP filter match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-ip
Tree	dst-ip
Description	Commands in this context configure a destination address range that is used by filter policy match criteria.
Notes	The following elements are part of a choice: **ip** or (**dst-ip** and **src-ip**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	IPv4 address used as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IPv4 address prefix list used as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** filter match-list ip-prefix-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IPv4 address mask used as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port
Tree	dst-port
Description	Commands in this context configure match criteria for the destination port.
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port lt *number*
Tree	lt

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Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ip-filter *filter-name* entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Match criterion for fragmented packets
Context	**configure** filter ip-filter *filter-name* entry *number* match fragment *keyword*
Tree	fragment
Options	false, true, first-only, non-first-only
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** filter ip-filter *filter-name* entry *number* match icmp
Tree	icmp
Description	Commands in this context configure ICMP values to use as IP filter match criteria.
Introduced	25.3.R2
Platforms	SAR Gen 2

code *number*

Synopsis	ICMP code value to match
Context	**configure** filter ip-filter *filter-name* entry *number* match icmp code *number*
Tree	code
Description	This command specifies the ICMP code value that must be present to match. The system matches on ICMP code or ICMP type, or on both values.

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An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP code value of 0 match criterion may match non initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.

Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *number*

Synopsis	ICMP type value to match
Context	**configure** filter ip-filter *filter-name* entry *number* match icmp type *number*
Tree	type
Description	This command specifies the ICMP type value that must be present to match. The system matches on ICMP code or ICMP type, or on both values. An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP type value of 0 match criterion may match non initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enter the **ip** context
Context	**configure** filter ip-filter *filter-name* entry *number* match ip
Tree	ip
Notes	The following elements are part of a choice: **ip** or (**dst-ip** and **src-ip**).
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	IPv4 address used as the match criterion

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Context	**configure** filter ip-filter *filter-name* entry *number* match ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IPv4 address prefix list used as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** filter match-list ip-prefix-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IPv4 address mask used as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-option

Synopsis	Enable the **ip-option** context

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Context	**configure** filter ip-filter *filter-name* entry *number* match ip-option
Tree	ip-option
Description	Commands in this context configure matching packets with a specific IP option, or a range of IP options, in the first option of the IP header as an IP filter match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	Mask used with the IP option value in the packet header
Context	**configure** filter ip-filter *filter-name* entry *number* match ip-option mask *number*
Tree	mask
Description	This command specifies an optional value that can be used when specifying a range of option numbers to use as the match criteria.
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *number*

Synopsis	IP option to match
Context	**configure** filter ip-filter *filter-name* entry *number* match ip-option type *number*
Tree	type
Description	This command specifies the 8-bit option type in decimal integer, binary, or hexadecimal format. The mask is applied as an AND to the option byte, and the result is compared with the option value. The decimal value entered for the match should be a combined value of the 8-bit option type field and not only the option number. For example, to match IP packets that contain the Router Alert option (option number = 20), enter the option type of 148 (10010100).
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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multiple-option *boolean*

Synopsis	Match based on presence of multiple options in header
Context	**configure** filter ip-filter *filter-name* entry *number* match multiple-option *boolean*
Tree	multiple-option
Introduced	25.3.R2
Platforms	SAR Gen 2

option-present *boolean*

Synopsis	Match on any IP option present in the packet
Context	**configure** filter ip-filter *filter-name* entry *number* match option-present *boolean*
Tree	option-present
Description	When configured to **true**, the router matches on IP packets that contain any IP option in the IP header. An option field of zero is considered as no option present. When configured to **false**, the router matches on IP packets that do not have an IP option present in the IP header.
Introduced	25.3.R2
Platforms	SAR Gen 2

port

Synopsis	Enter the **port** context
Context	**configure** filter ip-filter *filter-name* entry *number* match port
Tree	port
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match port eq *number*
Tree	eq
Range	0 to 65535

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Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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range

Synopsis	Enable the **range** context
Context	**configure** filter ip-filter *filter-name* entry *number* match port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ip-filter *filter-name* entry *number* match port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ip-filter *filter-name* entry *number* match port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol identifier as a match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255

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Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Notes	The following elements are part of a choice: **protocol** or **protocol-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-list *reference*

Synopsis	Name of the protocol list as a match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match protocol-list *reference*
Tree	protocol-list
Reference	**configure** filter match-list protocol-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **protocol** or **protocol-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** filter ip-filter *filter-name* entry *number* match src-ip
Tree	src-ip
Description	Commands in this context configure a source address range that is used by filter policy match criteria.
Notes	The following elements are part of a choice: **ip** or (**dst-ip** and **src-ip**).
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	IPv4 address used as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address

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String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IPv4 address prefix list used as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** filter match-list ip-prefix-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IPv4 address mask used as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port
Tree	src-port
Description	Commands in this context configure match criteria for the source port.

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Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ip-filter *filter-name* entry *number* match src-port range start *number*

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Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-route-option *boolean*

Synopsis	Match based on presence of source route option
Context	**configure** filter ip-filter *filter-name* entry *number* match src-route-option *boolean*
Tree	src-route-option
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-established

Synopsis	Use ACK or RST status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-established
Tree	tcp-established
Description	When configured to **true**, a match occurs when the ACK or the RST TCP flag bit is set in the TCP header of an IP packet.
Notes	The following elements are part of a choice: **tcp-established** or **tcp-flags**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-flags

Synopsis	Enter the **tcp-flags** context
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags
Tree	tcp-flags
Description	Commands in this context configure the use of TCP flags as the IP filter match.
Notes	The following elements are part of a choice: **tcp-established** or **tcp-flags**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ack *boolean*

Synopsis	Use ACK TCP bit status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags ack *boolean*
Tree	ack
Description	When configured to **true**, a match occurs when the ACK TCP flag bit, defined in RFC 793, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the ACK TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

cwr *boolean*

Synopsis	Use CWR TCP bit status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags cwr *boolean*
Tree	cwr
Description	When configured to **true**, a match occurs when the Congestion Window Reduced (CWR) TCP flag bit, defined in RFC 3168, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the CWR TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

ece *boolean*

Synopsis	Use ECE TCP bit status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags ece *boolean*
Tree	ece
Description	When configured to **true**, a match occurs when the ECN-Echo (ECE) TCP flag bit, defined in RFC 3168, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the ECE TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2

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Platforms	SAR Gen 2

fin *boolean*

Synopsis	Use FIN TCP bit status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags fin *boolean*
Tree	fin
Description	When configured to **true**, a match occurs when the FIN TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the FIN TCP flag bit, defined in RFC 793, is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

ns *boolean*

Synopsis	Use NS TCP bit status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags ns *boolean*
Tree	ns
Description	When configured to **true**, a match occurs when the Nonce Sum (NS) TCP flag bit, defined in RFC 3540, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the NS TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

psh *boolean*

Synopsis	Use PSH TCP bit status in TCP header as match criterion
Context	**configure** filter ip-filter *filter-name* entry *number* match tcp-flags psh *boolean*
Tree	psh
Description	When configured to **true**, a match occurs when the Push (PSH) TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the Push (PSH) TCP flag bit is not set in the TCP header of an IP packet.

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When unconfigured, the system does not use the TCP flag as a match criterion.

Introduced 25.3.R2

Platforms SAR Gen 2

rst *boolean*

Synopsis Use RST TCP bit status in TCP header as match criterion

Context **configure** filter ip-filter *filter-name* entry *number* match tcp-flags rst *boolean*

Tree rst

Description When configured to **true**, a match occurs when the RST TCP flag bit is set in the TCP header of an IP packet.

When configured to **false**, a match occurs when the RST TCP flag bit is not set in the TCP header of an IP packet.

When unconfigured, the system does not use the TCP flag as a match criterion.

Introduced 25.3.R2

Platforms SAR Gen 2

syn *boolean*

Synopsis Use SYN TCP bit status in TCP header as match criterion

Context **configure** filter ip-filter *filter-name* entry *number* match tcp-flags syn *boolean*

Tree syn

Description When configured to **true**, a match occurs when the Synchronize (SYN) TCP flag bit is set in the TCP header of an IP packet.

When configured to **false**, a match occurs when the SYN TCP flag bit is not set in the TCP header of an IP packet.

When unconfigured, the system does not use the TCP flag as a match criterion.

Introduced 25.3.R2

Platforms SAR Gen 2

urg *boolean*

Synopsis Use URG TCP bit status in TCP header as match criterion

Context **configure** filter ip-filter *filter-name* entry *number* match tcp-flags urg *boolean*

Tree urg

Description When configured to **true**, a match occurs when the Urgent (URG) TCP flag bit is set in the TCP header of an IP packet.

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When configured to **false**, a match occurs when the URG TCP flag bit is not set in the TCP header of an IP packet.

When unconfigured, the system does not use the TCP flag as a match criterion.

Introduced	25.3.R2
Platforms	SAR Gen 2

pbr-down-action-override *keyword*

Synopsis	Action when PBR or PBF target for this entry is not available
Context	**configure** filter ip-filter *filter-name* entry *number* pbr-down-action-override *keyword*
Tree	pbr-down-action-override
Options	drop, forward, filter-default-action
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-dest *(number | keyword)*

Synopsis	Time before action with available PBR or PBF destination and highest priority
Context	**configure** filter ip-filter *filter-name* entry *number* sticky-dest *(number | keyword)*
Tree	sticky-dest
Range	0 to 65535
Units	seconds
Options	no-hold-time-up
Introduced	25.3.R2
Platforms	SAR Gen 2

filter-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IP filter ID
Context	**configure** filter ip-filter *filter-name* filter-id *number*
Tree	filter-id
Range	1 to 65535

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Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	Scope of the filter definition
Context	**configure** filter ip-filter *filter-name* scope *keyword*
Tree	scope
Description	This command configures the filter policy scope. If the scope of the policy is **template** and is applied to one or more services or network interfaces, the scope cannot be changed.
Options	exclusive, template, embedded, system, cpm
Default	template
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-exception [filter-name] *filter-name*

Synopsis	Enter the **ipv6-exception** list instance
Context	**configure** filter ipv6-exception *filter-name*
Tree	ipv6-exception
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *filter-name*

Synopsis	Filter name
Context	**configure** filter ipv6-exception *filter-name*
Tree	ipv6-exception
String length	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** filter ipv6-exception *filter-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** filter ipv6-exception *filter-name* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	ID for a match criteria and the corresponding action
Context	**configure** filter ipv6-exception *filter-name* entry *number*
Tree	entry
Range	1 to 2097151
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ipv6-exception *filter-name* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv6 address used as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-list *reference*

Synopsis	IPv6 address prefix list used as match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-ip ipv6-prefix-list *reference*

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Tree	ipv6-prefix-list
Reference	**configure** filter match-list ipv6-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IPv6 address mask used as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port
Tree	dst-port
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port range

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Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ipv6-exception *filter-name* entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

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code *number*

Synopsis	ICMPv6 code value to match
Context	**configure** filter ipv6-exception *filter-name* entry *number* match icmp code *number*
Tree	code
Description	This command specifies the ICMPv6 code value that must be present to match. The system matches on ICMP code or ICMP type, or on both values. An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP code value of 0 match criterion may match non-initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *number*

Synopsis	ICMPv6 type value to match
Context	**configure** filter ipv6-exception *filter-name* entry *number* match icmp type *number*
Tree	type
Description	This command specifies the ICMPv6 type value that must be present to match. The system matches on ICMP code or ICMP type, or on both values. An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP type value of 0 match criterion may match non initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** filter ipv6-exception *filter-name* entry *number* match next-header *(number | keyword)*
Tree	next-header

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Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

port

Synopsis	Enter the **port** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port
Tree	port
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port range end *number*
Tree	end
Range	1 to 65535

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ipv6-exception *filter-name* entry *number* match port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv6 address used as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-prefix-list *reference*

Synopsis	IPv6 address prefix list used as match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list
Reference	**configure** filter match-list ipv6-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IPv6 address mask used as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port
Tree	src-port
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535

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Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ipv6-exception *filter-name* entry *number* match src-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Filter ID
Context	**configure** filter ipv6-exception *filter-name* filter-id *number*
Tree	filter-id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-filter [filter-name] *filter-name*

Synopsis	Enter the **ipv6-filter** list instance
Context	**configure** filter ipv6-filter *filter-name*
Tree	ipv6-filter
Description	Commands in this context create a configuration context for the specified IPv6 filter entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *filter-name*

Synopsis	Filter name
Context	**configure** filter ipv6-filter *filter-name*
Tree	ipv6-filter
String length	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

chain-to-system-filter *boolean*

Synopsis	Chain filter policy to the active IPvX system filter policy

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Context	**configure** filter ipv6-filter *filter-name* chain-to-system-filter *boolean*
Tree	chain-to-system-filter
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Action for packets that do not match any entry
Context	**configure** filter ipv6-filter *filter-name* default-action *keyword*
Tree	default-action
Options	drop, accept
Default	drop
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ipv6-filter *filter-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

embed

Synopsis	Enter the **embed** context
Context	**configure** filter ipv6-filter *filter-name* embed
Tree	embed
Description	Commands in this context configure filter policy embedding. A previously defined IPv6 embedded filter policy or Hybrid OpenFlow switch instance can be embedded into an exclusive, template, or system filter policy at the specified offset value. Rules derived from BGP FlowSpec can also be embedded into template filter policies only.

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter [name] *reference* offset *number*

Synopsis	Enter the **filter** list instance
Context	**configure** filter ipv6-filter *filter-name* embed filter *reference* offset *number*
Tree	filter
Description	Commands in this context embed a previously defined IPv6 filter policy into the filter policy at the specified offset value.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	IPv6 policy to be embedded in the filter
Context	**configure** filter ipv6-filter *filter-name* embed filter *reference* offset *number*
Tree	filter
Reference	**configure** filter ipv6-filter *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

offset *number*

Synopsis	Offset of the embedded filter policy
Context	**configure** filter ipv6-filter *filter-name* embed filter *reference* offset *number*
Tree	filter
Description	This command configures the offset of the embedded filter policy. The embedded filter entry X has an entry X + offset in the embedding filter.
Range	0 to 2097150
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the embedded filter
Context	**configure** filter ipv6-filter *filter-name* embed filter *reference* offset *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** filter ipv6-filter *filter-name* entry *number*
Tree	entry
Description	Commands in this context create or edit a configuration context for the specified IPv6 filter entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	ID for a match criteria and the corresponding action
Context	**configure** filter ipv6-filter *filter-name* entry *number*
Tree	entry
Range	1 to 2097151
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enable the **action** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action

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Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

accept

Synopsis	Accept regular routing to forward a matching packet
Context	**configure** filter ipv6-filter *filter-name* entry *number* action accept
Tree	accept
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop

Synopsis	Drop a packet matching this entry
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop
Tree	drop
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-when

Synopsis	Enable the **drop-when** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when
Tree	drop-when
Introduced	25.3.R2
Platforms	SAR Gen 2

extracted-traffic

Synopsis	Drop traffic extracted to CPM
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when extracted-traffic

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Tree	extracted-traffic
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit

Synopsis	Enable the **hop-limit** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit
Tree	hop-limit
Notes	The following elements are part of a choice: **hop-limit** or **payload-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Equal to condition match value
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit eq *number*
Tree	eq
Range	0 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than condition match value
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit gt *number*
Tree	gt
Range	0 to 254
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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lt *number*

Synopsis	Less than condition match value
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit lt *number*
Tree	lt
Range	1 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit range
Tree	range
Description	This command in this context specify an inclusive range. When range is used, the start of the range (the first value entered) must be smaller than the end of the range (the second value entered).
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the range
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit range end *number*
Tree	end
Range	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the range

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Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when hop-limit range start *number*
Tree	start
Range	0 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

payload-length

Synopsis	Enable the **payload-length** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length
Tree	payload-length
Notes	The following elements are part of a choice: **hop-limit** or **payload-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact match criterion for the length
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than match criterion for the length
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length gt *number*
Tree	gt
Range	0 to 65534

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Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than match criterion for the length
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length range
Tree	range
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the length range
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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start *number*

Synopsis	Lower bound of the length range
Context	**configure** filter ipv6-filter *filter-name* entry *number* action drop-when payload-length range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

forward

Synopsis	Enter the **forward** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward
Tree	forward
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enable the **next-hop** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop
Tree	next-hop
Notes	The following elements are part of a choice: **bonding-connection**, **esi-l2**, **esi-l3**, **gre-tunnel**, **lsp**, **mpls-policy**, **next-hop**, **redirect-policy**, **router-instance**, **sap**, **sdp**, **srte-policy**, **srv6-policy**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nh-ip

Synopsis	Enable the **nh-ip** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip

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Tree	nh-ip
Notes	The following elements are part of a mandatory choice: **nh-ip** or **nh-ip-vrf**.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

Synopsis	IPv6 address of next hop to forward matching packets
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip address *ipv6-address*
Tree	address
Description	This command specifies the IPv6 address of a direct or indirect next hop to which matching packets are forwarded.
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *boolean*

Synopsis	Allow next hop to be indirectly reachable
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip indirect *boolean*
Tree	indirect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nh-ip-vrf

Synopsis	Enable the **nh-ip-vrf** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf
Tree	nh-ip-vrf
Notes	The following elements are part of a mandatory choice: **nh-ip** or **nh-ip-vrf**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv6-address*

Synopsis	IPv6 address of next hop to forward matching packets
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf address *ipv6-address*
Tree	address
Description	This command specifies the IPv6 address of a direct or indirect next hop to which matching packets are forwarded.
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *boolean*

Synopsis	Allow next hop to be indirectly reachable
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf indirect *boolean*
Tree	indirect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Routing context for route lookup for forwarding packets
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward next-hop nh-ip-vrf router-instance *string*
Tree	router-instance
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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redirect-policy *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Next hop or forward next hop router that forwards a packet that matches this entry
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward redirect-policy *reference*
Tree	redirect-policy
Reference	**configure** filter redirect-policy *named-item*
Notes	The following elements are part of a choice: **bonding-connection**, **esi-l2**, **esi-l3**, **gre-tunnel**, **lsp**, **mpls-policy**, **next-hop**, **redirect-policy**, **router-instance**, **sap**, **sdp**, **srte-policy**, **srv6-policy**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Router name or VPRN service name
Context	**configure** filter ipv6-filter *filter-name* entry *number* action forward router-instance *string*
Tree	router-instance
Notes	The following elements are part of a choice: **bonding-connection**, **esi-l2**, **esi-l3**, **gre-tunnel**, **lsp**, **mpls-policy**, **next-hop**, **redirect-policy**, **router-instance**, **sap**, **sdp**, **srte-policy**, **srv6-policy**, or **vprn-target**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-match

Synopsis	Ignore match criteria for the entry
Context	**configure** filter ipv6-filter *filter-name* entry *number* action ignore-match
Tree	ignore-match

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Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

rate-limit

Synopsis	Enable the **rate-limit** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit
Tree	rate-limit
Description	Commands in this context configure the rate-limit action for traffic that matches this filter entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit

Synopsis	Enable the **hop-limit** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit
Tree	hop-limit
Notes	The following elements are part of a choice: **hop-limit** or **payload-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Equal to condition match value
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit eq *number*
Tree	eq
Range	0 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gt *number*

Synopsis	Greater than condition match value
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit gt *number*
Tree	gt
Range	0 to 254
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than condition match value
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit lt *number*
Tree	lt
Range	1 to 255
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit range
Tree	range
Description	This command in this context specify an inclusive range. When range is used, the start of the range (the first value entered) must be smaller than the end of the range (the second value entered).
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the range

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Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit range end *number*
Tree	end
Range	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the range
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit hop-limit range start *number*
Tree	start
Range	0 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

payload-length

Synopsis	Enable the **payload-length** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length
Tree	payload-length
Notes	The following elements are part of a choice: **hop-limit** or **payload-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact match criterion for the length
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length eq *number*
Tree	eq
Range	0 to 65535

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Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than match criterion for the length
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than match criterion for the length
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length range
Tree	range
Notes	The following elements are part of a mandatory choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

Synopsis	Upper bound of the length range
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the length range
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit payload-length range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Peak information rate
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit pir *(number | keyword)*
Tree	pir
Range	0 to 2000000000
Units	kilobps
Options	max
Notes	The following elements are part of a mandatory choice: **pir**, **policer**, or **pps-pir**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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policer *named-item*

Synopsis	Policer name to use for rate limiting traffic
Context	**configure** filter ipv6-filter *filter-name* entry *number* action rate-limit policer *named-item*
Tree	policer
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **pir**, **policer**, or **pps-pir**.
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary

Synopsis	Enable the **secondary** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary
Tree	secondary
Introduced	25.3.R2
Platforms	SAR Gen 2

forward

Synopsis	Enter the **forward** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary forward
Tree	forward
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enable the **next-hop** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary forward next-hop
Tree	next-hop
Notes	The following elements are part of a choice: **next-hop**, **sap**, **sdp**, or **vprn-target**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

nh-ip-vrf

Synopsis	Enable the **nh-ip-vrf** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf
Tree	nh-ip-vrf
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

Synopsis	IPv6 address of next hop to forward matching packets
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf address *ipv6-address*
Tree	address
Description	This command specifies the IPv6 address of a direct or indirect next hop to which matching packets are forwarded.
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *boolean*

Synopsis	Allow next hop to be indirectly reachable
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf indirect *boolean*
Tree	indirect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Routing context for route lookup for forwarding packets
Context	**configure** filter ipv6-filter *filter-name* entry *number* action secondary forward next-hop nh-ip-vrf router-instance *string*
Tree	router-instance
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss-adjust

Synopsis	Adjust MSS option of TCP matching packets to configured value of tcp-mss in router interface context
Context	**configure** filter ipv6-filter *filter-name* entry *number* action tcp-mss-adjust
Tree	tcp-mss-adjust
Notes	The following elements are part of a mandatory choice: **accept**, **drop**, **forward**, **http-redirect**, **ignore-match**, **nat**, **reassemble**, or **tcp-mss-adjust**.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter ipv6-filter *filter-name* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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egress-pbr *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	PBR that has an effect when this filter is applied on egress
Context	**configure** filter ipv6-filter *filter-name* entry *number* egress-pbr *keyword*
Tree	egress-pbr
Options	true, true-with-l4lb
Introduced	25.3.R2
Platforms	SAR Gen 2

log *reference*

Synopsis	Log that is used for packets matching this entry
Context	**configure** filter ipv6-filter *filter-name* entry *number* log *reference*
Tree	log
Reference	**configure** filter log *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match
Tree	match
Description	Commands in this context provide match criteria for the filter entry. When the match criteria are satisfied, the action associated with the match criteria is executed.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP used as an IP filter match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dscp *keyword*

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Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-ip
Tree	dst-ip
Description	Commands in this context configure a destination address range that is used by filter policy match criteria.
Notes	The following elements are part of a choice: **ip** or (**dst-ip** and **src-ip**).
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv6 address used as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-list *reference*

Synopsis	IPv6 address prefix list used as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list

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Reference	**configure** filter match-list ipv6-prefix-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IPv6 address mask used as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port
Tree	dst-port
Description	Commands in this context configure match criteria for the destination port.
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ipv6-filter *filter-name* entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

extension-header

Synopsis	Enter the **extension-header** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match extension-header
Tree	extension-header
Introduced	25.3.R2

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Platforms	SAR Gen 2

ah *boolean*

Synopsis	Match a packet as per the existence of an AH Extension Header
Context	**configure** filter ipv6-filter *filter-name* entry *number* match extension-header ah *boolean*
Tree	ah
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *boolean*

Synopsis	Match a packet as per the existence of an Encapsulation security payload extension header
Context	**configure** filter ipv6-filter *filter-name* entry *number* match extension-header esp *boolean*
Tree	esp
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-by-hop *boolean*

Synopsis	Match on Hop-by-Hop Options Extension Header existence
Context	**configure** filter ipv6-filter *filter-name* entry *number* match extension-header hop-by-hop *boolean*
Tree	hop-by-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

routing-type0 *boolean*

Synopsis	Match a packet as per the existence of a routing Extension Header
Context	**configure** filter ipv6-filter *filter-name* entry *number* match extension-header routing-type0 *boolean*
Tree	routing-type0
Introduced	25.3.R2
Platforms	SAR Gen 2

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flow-label

Synopsis	Enable the **flow-label** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match flow-label
Tree	flow-label
Description	Commands in this context configure the flow label and optional mask match condition.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	Flow label mask for the IPv6 filter entry
Context	**configure** filter ipv6-filter *filter-name* entry *number* match flow-label mask *number*
Tree	mask
Description	This command specifies the IPv6 address mask for the flow label filter entry. This value can be expressed in decimal, hexadecimal, or binary format.
Range	1 to 1048575
Default	1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Flow label as a match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match flow-label value *number*
Tree	value
Description	This command specifies the flow label to use as a match criterion. This value can be expressed in decimal, hexadecimal, or binary format.
Range	0 to 1048575
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fragment *keyword*

Synopsis	Match criterion for fragmented packages
Context	**configure** filter ipv6-filter *filter-name* entry *number* match fragment *keyword*
Tree	fragment
Options	false, true, first-only, non-first-only
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match icmp
Tree	icmp
Description	Commands in this context configure ICMP values to use as IPv6 filter match criteria.
Introduced	25.3.R2
Platforms	SAR Gen 2

code *number*

Synopsis	ICMPv6 code value to match
Context	**configure** filter ipv6-filter *filter-name* entry *number* match icmp code *number*
Tree	code
Description	This command specifies the ICMPv6 code value that must be present to match. The system matches on ICMP code or ICMP type, or on both values. An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP code value of 0 match criterion may match non-initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *number*

Synopsis	ICMPv6 type value to match
Context	**configure** filter ipv6-filter *filter-name* entry *number* match icmp type *number*
Tree	type
Description	This command specifies the ICMPv6 type value that must be present to match. The system matches on ICMP code or ICMP type, or on both values. An entry containing Layer 4 non-zero match criteria does not match non initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing an ICMP type value of 0 match criterion may match non initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enter the **ip** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match ip
Tree	ip
Notes	The following elements are part of a choice: **ip** or (**dst-ip** and **src-ip**).
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv6 address used as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-prefix-list *reference*

Synopsis	IPv6 address prefix list used as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list
Reference	**configure** filter match-list ipv6-prefix-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IPv6 address mask used as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** filter ipv6-filter *filter-name* entry *number* match next-header *(number | keyword)*
Tree	next-header
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Notes	The following elements are part of a choice: **next-header** or **next-header-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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next-header-list *reference*

Synopsis	Name of the protocol list as a match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match next-header-list *reference*
Tree	next-header-list
Reference	**configure** filter match-list protocol-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **next-header** or **next-header-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port

Synopsis	Enter the **port** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port
Tree	port
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port gt *number*

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Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ipv6-filter *filter-name* entry *number* match port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-ip
Tree	src-ip
Description	Commands in this context configure a source address range that is used by filter policy match criteria.
Notes	The following elements are part of a choice: **ip** or (**dst-ip** and **src-ip**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv6 address used as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-list *reference*

Synopsis	IPv6 address prefix list used as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list
Reference	**configure** filter match-list ipv6-prefix-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IPv6 address mask used as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context

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Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port
Tree	src-port
Description	Commands in this context configure match criteria for the source port.
Notes	The following elements are part of a choice: **port** or (**dst-port** and **src-port**).
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65534
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than value as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port lt *number*
Tree	lt
Range	1 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

port-list *reference*

Synopsis	Name of the port list as the match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port port-list *reference*
Tree	port-list
Reference	**configure** filter match-list port-list *named-item*
Max. instances	1
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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start *number*

Synopsis	Lower bound of the port range
Context	**configure** filter ipv6-filter *filter-name* entry *number* match src-port range start *number*
Tree	start
Range	0 to 65534
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-established

Synopsis	Use ACK or RST status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-established
Tree	tcp-established
Description	When configured to **true**, a match occurs when the ACK or the RST TCP flag bit is set in the TCP header of an IP packet.
Notes	The following elements are part of a choice: **tcp-established** or **tcp-flags**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-flags

Synopsis	Enter the **tcp-flags** context
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags
Tree	tcp-flags
Description	Commands in this context configure the use of TCP flags as the IP filter match.
Notes	The following elements are part of a choice: **tcp-established** or **tcp-flags**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ack *boolean*

Synopsis	Use ACK TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags ack *boolean*

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Tree	ack
Description	When configured to **true**, a match occurs when the ACK TCP flag bit, defined in RFC 793, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the ACK TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

cwr *boolean*

Synopsis	Use CWR TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags cwr *boolean*
Tree	cwr
Description	When configured to **true**, a match occurs when the Congestion Window Reduced (CWR) TCP flag bit, defined in RFC 3168, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the CWR TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

ece *boolean*

Synopsis	Use ECE TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags ece *boolean*
Tree	ece
Description	When configured to **true**, a match occurs when the ECN-Echo (ECE) TCP flag bit, defined in RFC 3168, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the ECE TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fin *boolean*

Synopsis	Use FIN TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags fin *boolean*
Tree	fin
Description	When configured to **true**, a match occurs when the FIN TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the FIN TCP flag bit, defined in RFC 793, is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

ns *boolean*

Synopsis	Use NS TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags ns *boolean*
Tree	ns
Description	When configured to **true**, a match occurs when the Nonce Sum (NS) TCP flag bit, defined in RFC 3540, is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the NS TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

psh *boolean*

Synopsis	Use PSH TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags psh *boolean*
Tree	psh
Description	When configured to **true**, a match occurs when the Push (PSH) TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the Push (PSH) TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2

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Platforms	SAR Gen 2

rst *boolean*

Synopsis	Use RST TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags rst *boolean*
Tree	rst
Description	When configured to **true**, a match occurs when the RST TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the RST TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

syn *boolean*

Synopsis	Use SYN TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags syn *boolean*
Tree	syn
Description	When configured to **true**, a match occurs when the Synchronize (SYN) TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the SYN TCP flag bit is not set in the TCP header of an IP packet. When unconfigured, the system does not use the TCP flag as a match criterion.
Introduced	25.3.R2
Platforms	SAR Gen 2

urg *boolean*

Synopsis	Use URG TCP bit status in TCP header as match criterion
Context	**configure** filter ipv6-filter *filter-name* entry *number* match tcp-flags urg *boolean*
Tree	urg
Description	When configured to **true**, a match occurs when the Urgent (URG) TCP flag bit is set in the TCP header of an IP packet. When configured to **false**, a match occurs when the URG TCP flag bit is not set in the TCP header of an IP packet.

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When unconfigured, the system does not use the TCP flag as a match criterion.

Introduced	25.3.R2
Platforms	SAR Gen 2

pbr-down-action-override *keyword*

Synopsis	Action when PBR or PBF target for this entry is not available
Context	**configure** filter ipv6-filter *filter-name* entry *number* pbr-down-action-override *keyword*
Tree	pbr-down-action-override
Options	drop, forward, filter-default-action
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-dest *(number | keyword)*

Synopsis	Time before action with available PBR or PBF destination and highest priority
Context	**configure** filter ipv6-filter *filter-name* entry *number* sticky-dest *(number | keyword)*
Tree	sticky-dest
Range	0 to 65535
Units	seconds
Options	no-hold-time-up
Introduced	25.3.R2
Platforms	SAR Gen 2

filter-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv6 filter identifier
Context	**configure** filter ipv6-filter *filter-name* filter-id *number*
Tree	filter-id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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scope *keyword*

Synopsis	Scope of the filter definition
Context	**configure** filter ipv6-filter *filter-name* scope *keyword*
Tree	scope
Description	This command configures the filter policy scope. If the scope of the policy is **template** and is applied to one or more services or network interfaces, the scope cannot be changed.
Options	exclusive, template, embedded, system, cpm
Default	template
Introduced	25.3.R2
Platforms	SAR Gen 2

log [log-id] *number*

Synopsis	Enter the **log** list instance
Context	**configure** filter log *number*
Tree	log
Introduced	25.3.R2
Platforms	SAR Gen 2

[**log-id**] *number*

Synopsis	Filter log identifier
Context	**configure** filter log *number*
Tree	log
Range	101 to 199
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of filter logging
Context	**configure** filter log *number* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-or-empty*

Synopsis	Text description
Context	**configure** filter log *number* description *description-or-empty*
Tree	description
String length	0 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination

Synopsis	Enter the **destination** context
Context	**configure** filter log *number* destination
Tree	destination
Introduced	25.3.R2
Platforms	SAR Gen 2

memory

Synopsis	Enter the **memory** context
Context	**configure** filter log *number* destination memory
Tree	memory
Notes	The following elements are part of a choice: **memory** or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-entries *number*

Synopsis	Maximum number of memory entries that the log can store
Context	**configure** filter log *number* destination memory max-entries *number*
Tree	max-entries
Range	1 to 50000
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

stop-on-full *boolean*

Synopsis	Stop logging when maximum number of memory entries is reached or wrap-around is used
Context	**configure** filter log *number* destination memory stop-on-full *boolean*
Tree	stop-on-full
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

syslog

Synopsis	Enter the **syslog** context
Context	**configure** filter log *number* destination syslog
Tree	syslog
Notes	The following elements are part of a choice: **memory** or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Syslog server definition ID
Context	**configure** filter log *number* destination syslog name *reference*
Tree	name
Reference	**configure** log syslog *log-syslog-name*

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Introduced	25.3.R2
Platforms	SAR Gen 2

summary

Synopsis	Enter the **summary** context
Context	**configure** filter log *number* destination syslog summary
Tree	summary
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of filter log summarization
Context	**configure** filter log *number* destination syslog summary admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

summary-crit *keyword*

Synopsis	Summary for filter log entries
Context	**configure** filter log *number* destination syslog summary summary-crit *keyword*
Tree	summary-crit
Options	src-addr, dst-addr
Default	src-addr
Introduced	25.3.R2
Platforms	SAR Gen 2

match-list

Synopsis	Enter the **match-list** context
Context	**configure** filter match-list

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Tree	match-list
Description	Commands in this context configure match lists to be used in filter policies (IOM/FP and CPM).
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list [prefix-list-name] *named-item*

Synopsis	Enter the **ip-prefix-list** list instance
Context	**configure** filter match-list ip-prefix-list *named-item*
Tree	ip-prefix-list
Description	Commands in this context configure a list of IPv4 prefixes for match criteria in IPv4 ACL and CPM filter policies.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list-name**] *named-item*

Synopsis	IP prefix list name
Context	**configure** filter match-list ip-prefix-list *named-item*
Tree	ip-prefix-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

apply-path

Synopsis	Enter the **apply-path** context
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path
Tree	apply-path
Description	Commands in this context configure the autogeneration of address prefixes for IPv4 address prefix match lists.
Introduced	25.3.R2

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Platforms	SAR Gen 2

bgp-peers [criterion-index] *number*

Synopsis	Enter the **bgp-peers** list instance
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path bgp-peers *number*
Tree	bgp-peers
Description	Commands in this context configure the unique index for BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**criterion-index**] *number*

Synopsis	Index defining BGP peers for prefix autogeneration
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path bgp-peers *number*
Tree	bgp-peers
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group *regular-expression-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Regular expression to match against the base router BGP instance group configuration
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path bgp-peers *number* group *regular-expression-not-all-spaces*
Tree	group
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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neighbor *regular-expression-not-all-spaces*

WARNING:
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Synopsis	Regular expression to match against the base router BGP instance neighbor configuration
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path bgp-peers *number* neighbor *regular-expression-not-all-spaces*
Tree	neighbor
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Router name or VPRN service name
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path bgp-peers *number* router-instance *string*
Tree	router-instance
Description	This command specifies the router name or service ID as part of apply-path BGP peers.
Default	Base
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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service-name-match *regular-expression-not-all-spaces*

WARNING:
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Synopsis	Regular expression to match against VPRN service name
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path bgp-peers *number* service-name-match *regular-expression-not-all-spaces*
Tree	service-name-match
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	26.3.R1
Platforms	SAR Gen 2

interfaces [criterion-index] *number*

Synopsis	Enter the **interfaces** list instance
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path interfaces *number*
Tree	interfaces
Description	Commands in this context configure the interfaces configuration to be used for autogeneration of IPv4 address filter prefix lists.
Introduced	25.10.R1
Platforms	SAR Gen 2

[**criterion-index**] *number*

Synopsis	Index defining interfaces for prefix autogeneration
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path interfaces *number*
Tree	interfaces
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

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interface *regular-expression-not-all-spaces*

WARNING:
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Synopsis	Regular expression defining a match string
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path interfaces *number* interface *regular-expression-not-all-spaces*
Tree	interface
Description	This command configures a regular expression to match against interface names under the Base router, IES, and VPRN service configuration.
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Router name or VPRN service name
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path interfaces *number* router-instance *string*
Tree	router-instance
Description	This command specifies the router name or service name as part of apply-path interfaces.
Default	Base
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	25.10.R1
Platforms	SAR Gen 2

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service-name-match *regular-expression-not-all-spaces*

WARNING:
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Synopsis	Regular expression to match against VPRN service name
Context	**configure** filter match-list ip-prefix-list *named-item* apply-path interfaces *number* service-name-match *regular-expression-not-all-spaces*
Tree	service-name-match
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	26.3.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter match-list ip-prefix-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *ipv4-prefix*

Synopsis	Add a list entry for **prefix**
Context	**configure** filter match-list ip-prefix-list *named-item* prefix *ipv4-prefix*
Tree	prefix
Description	Commands in this context add IPv4 prefixes to the prefix match list. Prefixes can overlap IPv4 address space. An IPv4 prefix addition is blocked if resource exhaustion is detected anywhere in the system due to filter policies that use the prefix list.
Max. instances	8192

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *ipv4-prefix*

Synopsis	IPv4 prefix to be added to the prefix list
Context	**configure** filter match-list ip-prefix-list *named-item* prefix *ipv4-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-exclude [ip-prefix] *ipv4-prefix*

Synopsis	Add a list entry for **prefix-exclude**
Context	**configure** filter match-list ip-prefix-list *named-item* prefix-exclude *ipv4-prefix*
Tree	prefix-exclude
Description	Commands in this context exclude IPv4 prefixes from the prefix match list. This command is mutually exclusive with the **apply-path** command.
Max. instances	512
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *ipv4-prefix*

Synopsis	IPv4 prefix to be added to the prefix list
Context	**configure** filter match-list ip-prefix-list *named-item* prefix-exclude *ipv4-prefix*
Tree	prefix-exclude
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-prefix-list [prefix-list-name] *named-item*

Synopsis	Enter the **ipv6-prefix-list** list instance
Context	**configure** filter match-list ipv6-prefix-list *named-item*
Tree	ipv6-prefix-list
Description	Commands in this context configure a list of IPv6 prefixes for match criteria in ACL and CPM IPv6 filter policies.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list-name**] *named-item*

Synopsis	IP prefix list name
Context	**configure** filter match-list ipv6-prefix-list *named-item*
Tree	ipv6-prefix-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

apply-path

Synopsis	Enter the **apply-path** context
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path
Tree	apply-path
Description	Commands in this context configure the autogeneration of address prefixes for IPv6 address prefix match lists.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-peers [criterion-index] *number*

Synopsis	Enter the **bgp-peers** list instance
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path bgp-peers *number*

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Tree	bgp-peers
Description	Commands in this context configure the unique index for BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**criterion-index**] *number*

Synopsis	Index defining BGP peers for prefix autogeneration
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path bgp-peers *number*
Tree	bgp-peers
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group *regular-expression-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Regular expression to match against the base router BGP instance group configuration
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path bgp-peers *number* group *regular-expression-not-all-spaces*
Tree	group
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor *regular-expression-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Regular expression to match against the base router BGP instance neighbor configuration
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path bgp-peers *number* neighbor *regular-expression-not-all-spaces*
Tree	neighbor
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Router name or VPRN service name
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path bgp-peers *number* router-instance *string*
Tree	router-instance
Description	This command specifies the router name or service ID as part of apply-path BGP peers.
Default	Base
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name-match *regular-expression-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Regular expression to match against VPRN service name
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path bgp-peers *number* service-name-match *regular-expression-not-all-spaces*
Tree	service-name-match

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String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	26.3.R1
Platforms	SAR Gen 2

interfaces [criterion-index] *number*

Synopsis	Enter the **interfaces** list instance
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path interfaces *number*
Tree	interfaces
Description	Commands in this context configure the interfaces configuration to be used for the autogeneration of IPv6 address filter prefix lists.
Introduced	25.10.R1
Platforms	SAR Gen 2

[**criterion-index**] *number*

Synopsis	Index defining interfaces for prefix autogeneration
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path interfaces *number*
Tree	interfaces
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

interface *regular-expression-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Regular expression defining a match string
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path interfaces *number* interface *regular-expression-not-all-spaces*
Tree	interface

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Description	This command configures a regular expression to match against interface names under the Base router, IES, and VPRN service configuration.
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Router name or VPRN service name
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path interfaces *number* router-instance *string*
Tree	router-instance
Description	This command specifies the router name or service name as part of apply-path interfaces.
Default	Base
Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	25.10.R1
Platforms	SAR Gen 2

service-name-match *regular-expression-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Regular expression to match against VPRN service name
Context	**configure** filter match-list ipv6-prefix-list *named-item* apply-path interfaces *number* service-name-match *regular-expression-not-all-spaces*
Tree	service-name-match
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character

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Notes	The following elements are part of a choice: **router-instance** or **service-name-match**.
Introduced	26.3.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter match-list ipv6-prefix-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Add a list entry for **prefix**
Context	**configure** filter match-list ipv6-prefix-list *named-item* prefix *ipv6-prefix*
Tree	prefix
Max. instances	8192
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix to be added to the prefix list
Context	**configure** filter match-list ipv6-prefix-list *named-item* prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-exclude [ipv6-prefix] *ipv6-prefix*

Synopsis	Add a list entry for **prefix-exclude**
Context	**configure** filter match-list ipv6-prefix-list *named-item* prefix-exclude *ipv6-prefix*
Tree	prefix-exclude
Description	Commands in this context exclude IPv6 prefixes from the prefix match list. This command is mutually exclusive with the **apply-path** command.
Max. instances	512
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix to be added to the prefix list
Context	**configure** filter match-list ipv6-prefix-list *named-item* prefix-exclude *ipv6-prefix*
Tree	prefix-exclude
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-list [port-list-name] *named-item*

Synopsis	Enter the **port-list** list instance
Context	**configure** filter match-list port-list *named-item*
Tree	port-list
Max. instances	5120
Introduced	25.3.R2
Platforms	SAR Gen 2

[**port-list-name**] *named-item*

Synopsis	Port list name
Context	**configure** filter match-list port-list *named-item*

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Tree	port-list
Description	This command specifies the port list name. If special characters are used (#, $, spaces, and so on), the string must be enclosed within double quotes.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter match-list port-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

port [value] *number*

Synopsis	Add a list entry for **port**
Context	**configure** filter match-list port-list *named-item* port *number*
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

[**value**] *number*

Synopsis	Port value
Context	**configure** filter match-list port-list *named-item* port *number*
Tree	port
Range	0 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

range start *number* end *number*

Synopsis	Add a list entry for **range**
Context	**configure** filter match-list port-list *named-item* range start *number* end *number*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port list range
Context	**configure** filter match-list port-list *named-item* range start *number* end *number*
Tree	range
Range	0 to 65534
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port list range
Context	**configure** filter match-list port-list *named-item* range start *number* end *number*
Tree	range
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-list [protocol-list-name] *named-item*

Synopsis	Enter the **protocol-list** list instance
Context	**configure** filter match-list protocol-list *named-item*
Tree	protocol-list

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Max. instances	512
Introduced	25.3.R2
Platforms	SAR Gen 2

[**protocol-list-name**] *named-item*

Synopsis	Protocol list name
Context	**configure** filter match-list protocol-list *named-item*
Tree	protocol-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter match-list protocol-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol [protocol-id] *(number | keyword)*

Synopsis	Add a list entry for **protocol**
Context	**configure** filter match-list protocol-list *named-item* protocol *(number | keyword)*
Tree	protocol
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**protocol-id**] *(number | keyword)*

Synopsis	IP protocol identifier
Context	**configure** filter match-list protocol-list *named-item* protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-auto-id

Synopsis	Enter the **md-auto-id** context
Context	**configure** filter md-auto-id
Tree	md-auto-id
Introduced	25.3.R2
Platforms	SAR Gen 2

filter-id-range

Synopsis	Enable the **filter-id-range** context
Context	**configure** filter md-auto-id filter-id-range
Tree	filter-id-range
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

WARNING:
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Synopsis	Upper bound of the ID range

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Context	**configure** filter md-auto-id filter-id-range end *number*
Tree	end
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Lower bound of the ID range
Context	**configure** filter md-auto-id filter-id-range start *number*
Tree	start
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-name] *named-item*

Synopsis	Enter the **policer** list instance
Context	**configure** filter policer *named-item*
Tree	policer
Description	Commands in this context configure policer options.
Max. instances	8192
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-name**] *named-item*

Synopsis	Name of the policer for use in a filter policy
Context	**configure** filter policer *named-item*

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Tree	policer
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter policer *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum burst size
Context	**configure** filter policer *named-item* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Default	auto
Notes	The following elements are part of a choice: (**mbs** and **pir**) or **pps-pir**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *number*

Synopsis	Peak information rate
Context	**configure** filter policer *named-item* pir *number*
Tree	pir

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Range	0 to 2000000000
Units	kilobps
Notes	The following elements are part of a choice: (**mbs** and **pir**) or **pps-pir**.
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Policer scope
Context	**configure** filter policer *named-item* scope *keyword*
Tree	scope
Description	This command configures the scope for the policer object. When the **system** scope is configured, it creates an instance of the policer for each direction immediately after the policer is configured and shares the instance with all filter entries that reference that policer name applied in the same direction. When the **filter** scope is configured, it configures the policer instance to be shared by rate-limit entries that are part of the same filter policy and are applied in the same direction.
Options	filter – Policer shared by entries in same filter policer system – Single policer shared by the system
Default	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

redirect-policy [redirect-policy-name] *named-item*

Synopsis	Enter the **redirect-policy** list instance
Context	**configure** filter redirect-policy *named-item*
Tree	redirect-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**redirect-policy-name**] *named-item*

Synopsis	Redirect policy name
Context	**configure** filter redirect-policy *named-item*
Tree	redirect-policy
Description	This command specifies the redirect policy name. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the redirect policy
Context	**configure** filter redirect-policy *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter redirect-policy *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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destination [destination-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **destination** list instance
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	destination
Introduced	25.3.R2
Platforms	SAR Gen 2

[**destination-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address and type of destination
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	destination
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the destination
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ping-test

Synopsis	Enable the **ping-test** context
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* ping-test
Tree	ping-test
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Number of consecutive requests that fail before destination is declared unreachable
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* ping-test drop-count *number*
Tree	drop-count
Range	1 to 60
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down *number*

Synopsis	Time for the system to be held down if this test has marked it unreachable
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* ping-test hold-down *number*
Tree	hold-down
Range	0 to 86400
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

Synopsis	Time between consecutive requests which are sent to the far end host
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* ping-test interval *number*
Tree	interval
Range	1 to 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address to use in the IP packet of the ping test
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* ping-test source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time required to receive a response from the far end host
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* ping-test timeout *number*
Tree	timeout
Range	1 to 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority *number*

Synopsis	Priority for this destination
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* priority *number*
Tree	priority
Range	1 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-rt-test

Synopsis	Enable the **unicast-rt-test** context
Context	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)* unicast-rt-test
Tree	unicast-rt-test
Introduced	25.3.R2
Platforms	SAR Gen 2

notify-dest-change *boolean*

Synopsis	Send notifications when the active destination changes
Context	**configure** filter redirect-policy *named-item* notify-dest-change *boolean*
Tree	notify-dest-change
Description	When configured to **true**, notifications (such as Log and SNMP) are sent when the active destination of a redirect policy changes. No notification is sent when there are no more active destinations (as this scenario is covered by another notification). When configured to **false**, the notification generation is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Routing context to use for route lookup

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Context	**configure** filter redirect-policy *named-item* router-instance *string*
Tree	router-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-dest *(number | keyword)*

Synopsis	Time required by system before applying the current best destination as active destination
Context	**configure** filter redirect-policy *named-item* sticky-dest *(number | keyword)*
Tree	sticky-dest
Range	0 to 65535
Units	seconds
Options	no-hold-time-up
Introduced	25.3.R2
Platforms	SAR Gen 2

redirect-policy-binding [binding-name] *named-item*

Synopsis	Enter the **redirect-policy-binding** list instance
Context	**configure** filter redirect-policy-binding *named-item*
Tree	redirect-policy-binding
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**binding-name**] *named-item*

Synopsis	Binding name
Context	**configure** filter redirect-policy-binding *named-item*
Tree	redirect-policy-binding
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

binding-operator *keyword*

Synopsis	Logical operator used to obtain the master test result
Context	**configure** filter redirect-policy-binding *named-item* binding-operator *keyword*
Tree	binding-operator
Description	This command configures the logical operator to use with the destinations' test results to obtain the master test result (the redirect policy binding test result).
Options	and, or
Default	and
Introduced	25.3.R2
Platforms	SAR Gen 2

redirect-policy [redirect-policy-name] *reference*

Synopsis	Enter the **redirect-policy** list instance
Context	**configure** filter redirect-policy-binding *named-item* redirect-policy *reference*
Tree	redirect-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**redirect-policy-name**] *reference*

Synopsis	Redirect policy name
Context	**configure** filter redirect-policy-binding *named-item* redirect-policy *reference*
Tree	redirect-policy
Reference	**configure** filter redirect-policy *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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destination [destination-address] *reference*

Synopsis	Add a list entry for **destination**
Context	**configure** filter redirect-policy-binding *named-item* redirect-policy *reference* destination *reference*
Tree	destination
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**destination-address**] *reference*

Synopsis	IP address of redirect policy destination to binding
Context	**configure** filter redirect-policy-binding *named-item* redirect-policy *reference* destination *reference*
Tree	destination
Reference	**configure** filter redirect-policy *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

system-filter

Synopsis	Enter the **system-filter** context
Context	**configure** filter system-filter
Tree	system-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip [ip-filter] *reference*

Synopsis	Add a list entry for **ip**
Context	**configure** filter system-filter ip *reference*
Tree	ip

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Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-filter**] *reference*

Synopsis	Active IPv4 system filter policy
Context	**configure** filter system-filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 [ipv6-filter] *reference*

Synopsis	Add a list entry for **ipv6**
Context	**configure** filter system-filter ipv6 *reference*
Tree	ipv6
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-filter**] *reference*

Synopsis	Active IPv6 system filter policy
Context	**configure** filter system-filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.10 group-encryption commands

```
configure
   – group-encryption
      – apply-groups reference
      – apply-groups-exclude reference
      – encryption-keygroup number
         – active-outbound-security-association reference
         – apply-groups reference
         – apply-groups-exclude reference
         – authentication-algorithm keyword
         – description description
         – encryption-algorithm keyword
         – keygroup-name named-item-64-or-empty
         – security-association number
            – apply-groups reference
            – apply-groups-exclude reference
            – authentication-key encrypted-leaf-hex
            – encryption-key encrypted-leaf-hex
      – group-encryption-label number
```


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4.10.1 group-encryption command descriptions

group-encryption

Synopsis	Enter the **group-encryption** context
Context	**configure** group-encryption
Tree	group-encryption
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-keygroup [id] *number*

Synopsis	Enter the **encryption-keygroup** list instance
Context	**configure** group-encryption encryption-keygroup *number*
Tree	encryption-keygroup
Max. instances	127
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Encryption key group ID
Context	**configure** group-encryption encryption-keygroup *number*
Tree	encryption-keygroup
Range	1 to 127
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

active-outbound-security-association *reference*

Synopsis	SPI to use for egressing packets for the key group
Context	**configure** group-encryption encryption-keygroup *number* active-outbound-security-association *reference*

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Tree	active-outbound-security-association
Reference	**configure** group-encryption encryption-keygroup *number* security-association *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-algorithm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Hashing algorithm used for the authentication function
Context	**configure** group-encryption encryption-keygroup *number* authentication-algorithm *keyword*
Tree	authentication-algorithm
Options	sha256, sha512
Default	sha256
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** group-encryption encryption-keygroup *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-algorithm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Encryption algorithm for encryption on ESP

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Context	**configure** group-encryption encryption-keygroup *number* encryption-algorithm *keyword*
Tree	encryption-algorithm
Options	aes128, aes256
Default	aes128
Introduced	25.3.R2
Platforms	SAR Gen 2

keygroup-name *named-item-64-or-empty*

Synopsis	Key group name
Context	**configure** group-encryption encryption-keygroup *number* keygroup-name *named-item-64-or-empty*
Tree	keygroup-name
String length	0 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

security-association [security-parameter-index] *number*

Synopsis	Enter the **security-association** list instance
Context	**configure** group-encryption encryption-keygroup *number* security-association *number*
Tree	security-association
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**security-parameter-index**] *number*

Synopsis	Security Parameter Index (SPI)
Context	**configure** group-encryption encryption-keygroup *number* security-association *number*
Tree	security-association
Range	1 to 1023
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf-hex*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the authentication algorithm
Context	**configure** group-encryption encryption-keygroup *number* security-association *number* authentication-key *encrypted-leaf-hex*
Tree	authentication-key
Description	This command specifies the key used for the authentication algorithm in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
String format	'encrypted-leaf-hex' must have clear text in hex with prefix 0x or end with hash/hash2/hash3/custom
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-key *encrypted-leaf-hex*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the encryption algorithm
Context	**configure** group-encryption encryption-keygroup *number* security-association *number* encryption-key *encrypted-leaf-hex*
Tree	encryption-key
Description	This command specifies the key used for the encryption algorithm in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

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String length	1 to 126
String format	'encrypted-leaf-hex' must have clear text in hex with prefix 0x or end with hash/hash2/hash3/custom
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-encryption-label *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Network-wide unique MPLS label for group encryption
Context	**configure** group-encryption group-encryption-label *number*
Tree	group-encryption-label
Range	32 to 2047
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.11 ipsec commands

```
configure
   – ipsec
      – apply-groups reference
      – apply-groups-exclude reference
      – cert-profile named-item
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – entry number
            – apply-groups reference
            – apply-groups-exclude reference
            – cert pki-file-name
            – compare-chain-include reference
            – key pki-file-name
            – rsa-signature keyword
            – send-chain
               – ca-profile reference
      – client-db named-item
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – client number
            – action keyword
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – cert
               – cert-profile reference
               – status-verify
                  – default-result keyword
                  – primary keyword
                  – secondary keyword
               – trust-anchor-profile reference
            – client-name named-item
            – credential
               – pre-shared-key encrypted-leaf-hex-without-prefix
            – identification
               – idi
                  – any boolean
                  – fqdn display-string-or-empty
                  – fqdn-suffix display-string-or-empty
                  – ipv4-prefix ipv4-prefix
                  – ipv4-prefix-any boolean
                  – ipv6-prefix ipv6-prefix
                  – ipv6-prefix-any boolean
                  – regexp display-string-or-empty
                  – rfc822 display-string-or-empty
                  – rfc822-suffix display-string-or-empty
               – peer-ip-prefix
                  – ip-prefix (ipv4-prefix | ipv6-prefix)
                  – ipv4-only boolean
                  – ipv6-only boolean
            – local
               – address-assignment
                  – ipv4
                     – dhcp-server named-item
                     – pool named-item
                     – router-instance string
                     – secondary-pool named-item
```


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```
                - ipv6
                  - dhcp-server named-item
                  - pool named-item
                  - router-instance string
            - private-interface named-item
            - private-service-name service-name
            - ts-list named-item
            - tunnel-template number
         - description description
         - match-list
            - idi boolean
            - peer-ip-prefix boolean
      - ike-policy number
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - dpd
            - interval number
            - max-retries number
            - reply-only boolean
         - ike-transform reference
         - ike-version-1
            - auth-method keyword
            - ike-mode keyword
            - own-auth-method keyword
            - ph1-responder-delete-notify boolean
         - ike-version-2
            - auth-method keyword
            - auto-eap-method keyword
            - ikev2-fragment
               - mtu number
               - reassembly-timeout number
            - own-auth-method keyword
            - own-auto-eap-method keyword
            - ppk-required boolean
            - send-idr-after-eap-success boolean
         - ipsec-lifetime number
         - limit-init-exchange
            - admin-state keyword
            - reduced-max-exchange-timeout (number | keyword)
         - lockout
            - block (number | keyword)
            - duration number
            - failed-attempts number
            - max-port-per-ip number
         - match-peer-id-to-cert boolean
         - nat-traversal
            - force boolean
            - force-keep-alive boolean
            - keep-alive-interval number
         - pfs
            - dh-group keyword
         - relay-unsolicited-cfg-attribute
            - internal-ip4-address boolean
            - internal-ip4-dns boolean
            - internal-ip4-netmask boolean
            - internal-ip6-address boolean
            - internal-ip6-dns boolean
      - ike-transform number
         - apply-groups reference
         - apply-groups-exclude reference
         - dh-group keyword
         - ike-auth-algorithm keyword
         - ike-encryption-algorithm keyword
```


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configure ipsec ike-transform ike-prf-algorithm

```
        - ike-prf-algorithm keyword
        - isakmp-lifetime number
    - ipsec-transform number
        - apply-groups reference
        - apply-groups-exclude reference
        - esp-auth-algorithm keyword
        - esp-encryption-algorithm keyword
        - extended-sequence-number boolean
        - ipsec-lifetime number
        - pfs-dh-group keyword
    - ipsec-transport-mode-profile named-item
        - apply-groups reference
        - apply-groups-exclude reference
        - description description
        - key-exchange
            - dynamic
                - auto-establish boolean
                - cert
                    - cert-profile reference
                    - status-verify
                        - default-result keyword
                        - primary keyword
                        - secondary keyword
                    - trust-anchor-profile reference
                - id
                    - fqdn fully-qualified-domain-name
                    - ipv4 ipv4-unicast-address
                    - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                - ike-policy reference
                - ipsec-transform reference
                - ppk
                    - id reference
                    - list reference
                - pre-shared-key encrypted-leaf
        - max-history-key-records
            - esp number
            - ike number
        - replay-window number
    - ppk-list named-item
        - apply-groups reference
        - apply-groups-exclude reference
        - ppk named-item-64
            - apply-groups reference
            - apply-groups-exclude reference
            - value
                - ascii encrypted-leaf
                - hex encrypted-leaf-hex
    - radius
        - accounting-policy named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - include-radius-attribute
                - acct-stats boolean
                - called-station-id boolean
                - calling-station-id boolean
                - framed-ip-addr boolean
                - framed-ipv6-prefix boolean
                - nas-identifier boolean
                - nas-ip-addr boolean
                - nas-port-id boolean
            - radius-server-policy reference
            - update-interval
                - jitter number
                - value number
```


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```
        - authentication-policy named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - include-radius-attribute
                - called-station-id boolean
                - calling-station-id boolean
                - client-cert-subject-key-id boolean
                - nas-identifier boolean
                - nas-ip-addr boolean
                - nas-port-id boolean
            - password encrypted-leaf
            - radius-server-policy reference
    - show-ipsec-keys boolean
    - static-sa named-item
        - apply-groups reference
        - apply-groups-exclude reference
        - authentication
            - algorithm keyword
            - key encrypted-leaf
        - description named-item
        - direction keyword
        - protocol keyword
        - spi number
    - trust-anchor-profile named-item
        - apply-groups reference
        - apply-groups-exclude reference
        - trust-anchor reference
    - ts-list named-item
        - apply-groups reference
        - apply-groups-exclude reference
        - local
            - entry number
                - address
                    - prefix (ipv4-prefix | ipv6-prefix)
                    - range
                        - begin (ipv4-address-no-zone | ipv6-address-no-zone)
                        - end (ipv4-address-no-zone | ipv6-address-no-zone)
                - apply-groups reference
                - apply-groups-exclude reference
                - protocol
                    - any
                    - id
                        - icmp
                            - opaque
                            - port-range
                                - begin-icmp-code number
                                - begin-icmp-type number
                                - end-icmp-code number
                                - end-icmp-type number
                        - icmp6
                            - opaque
                            - port-range
                                - begin-icmp-code number
                                - begin-icmp-type number
                                - end-icmp-code number
                                - end-icmp-type number
                        - mipv6
                            - opaque
                            - port-range
                                - begin number
                                - end number
                        - protocol-id-with-any-port (keyword | number)
                        - sctp
                            - opaque
```


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```
                        - port-range
                           - begin number
                           - end number
                     - tcp
                        - opaque
                        - port-range
                           - begin number
                           - end number
                     - udp
                        - opaque
                        - port-range
                           - begin number
                           - end number
         - remote
            - entry number
               - address
                  - prefix (ipv4-prefix | ipv6-prefix)
                  - range
                     - begin (ipv4-address-no-zone | ipv6-address-no-zone)
                     - end (ipv4-address-no-zone | ipv6-address-no-zone)
               - apply-groups reference
               - apply-groups-exclude reference
               - protocol
                  - any
                  - id
                     - icmp
                        - opaque
                        - port-range
                           - begin-icmp-code number
                           - begin-icmp-type number
                           - end-icmp-code number
                           - end-icmp-type number
                     - icmp6
                        - opaque
                        - port-range
                           - begin-icmp-code number
                           - begin-icmp-type number
                           - end-icmp-code number
                           - end-icmp-type number
                     - mipv6
                        - opaque
                        - port-range
                           - begin number
                           - end number
                     - protocol-id-with-any-port (keyword | number)
                     - sctp
                        - opaque
                        - port-range
                           - begin number
                           - end number
                     - tcp
                        - opaque
                        - port-range
                           - begin number
                           - end number
                     - udp
                        - opaque
                        - port-range
                           - begin number
                           - end number
      - tunnel-template number
         - apply-groups reference
         - apply-groups-exclude reference
         - clear-df-bit boolean
```


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configure ipsec tunnel-template copy-traffic-class-upon-decapsulation

```
        - copy-traffic-class-upon-decapsulation boolean
        - description description
        - encapsulated-ip-mtu number
        - icmp-generation
          - frag-required
            - admin-state keyword
            - interval number
            - message-count number
        - icmp6-generation
          - pkt-too-big
            - admin-state keyword
            - interval number
            - message-count number
        - ignore-default-route boolean
        - ip-mtu number
        - ipsec-transform reference
        - pmtu-discovery-aging number
        - ppk-list reference
        - private-tcp-mss-adjust number
        - propagate-pmtu-v4 boolean
        - propagate-pmtu-v6 boolean
        - public-tcp-mss-adjust (number | keyword)
        - replay-window number
        - reverse-route
          - metric number
          - preference number
        - sp-reverse-route keyword
```


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4.11.1 ipsec command descriptions

ipsec

Synopsis	Enter the **ipsec** context
Context	**configure** ipsec
Tree	ipsec
Description	Commands in this context configure Internet Protocol Security (IPsec) commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile [name] *named-item*

Synopsis	Enter the **cert-profile** list instance
Context	**configure** ipsec cert-profile *named-item*
Tree	cert-profile
Description	Commands in this context configure the certificate profile.
Max. instances	10200
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Certificate profile name
Context	**configure** ipsec cert-profile *named-item*
Tree	cert-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the certificate profile
Context	**configure** ipsec cert-profile *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** ipsec cert-profile *named-item* entry *number*
Tree	entry
Description	Commands in this context configure the certificate profile entry.
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Certificate profile entry ID
Context	**configure** ipsec cert-profile *named-item* entry *number*
Tree	entry
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert *pki-file-name*

Synopsis	File name of the imported certificate for the entry
Context	**configure** ipsec cert-profile *named-item* entry *number* cert *pki-file-name*

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Tree	cert
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

compare-chain-include *reference*

Synopsis	CA profile to include in the compare-chain
Context	**configure** ipsec cert-profile *named-item* entry *number* compare-chain-include *reference*
Tree	compare-chain-include
Description	This command specifies the Certificate Authority (CA) that needs to be included in the compare-chain for the entry. This configuration is required in instances where the configured root CA is cross-signed by another CA.
Reference	**configure** system security pki ca-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

key *pki-file-name*

Synopsis	File name of the imported key used for authentication
Context	**configure** ipsec cert-profile *named-item* entry *number* key *pki-file-name*
Tree	key
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

rsa-signature *keyword*

Synopsis	Signature scheme for the RSA key
Context	**configure** ipsec cert-profile *named-item* entry *number* rsa-signature *keyword*
Tree	rsa-signature
Options	pkcs1, pss

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Default	pkcs1
Introduced	25.3.R2
Platforms	SAR Gen 2

send-chain

Synopsis	Enter the **send-chain** context
Context	**configure** ipsec cert-profile *named-item* entry *number* send-chain
Tree	send-chain
Description	Commands in this context allow the system to send additional CA certificates to the peer. These additional CA certificates must be in the certificate chain of the certificate specified by the **cert** command in the same entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	CA certificate to send to the peer
Context	**configure** ipsec cert-profile *named-item* entry *number* send-chain ca-profile *reference*
Tree	ca-profile
Reference	**configure** system security pki ca-profile *named-item*
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

client-db [name] *named-item*

Synopsis	Enter the **client-db** list instance
Context	**configure** ipsec client-db *named-item*
Tree	client-db
Max. instances	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	IPsec client database name
Context	**configure** ipsec client-db *named-item*
Tree	client-db
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the client database
Context	**configure** ipsec client-db *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

client [id] *number*

Synopsis	Enter the **client** list instance
Context	**configure** ipsec client-db *named-item* client *number*
Tree	client
Description	Commands in this context configure the IPsec client entry in the client database.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Client ID
Context	**configure** ipsec client-db *named-item* client *number*
Tree	client

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Range	1 to 8000
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec client action
Context	**configure** ipsec client-db *named-item* client *number* action *keyword*
Tree	action
Options	accept – Accept the IPsec client reject – Reject the IPsec client
Default	accept
Introduced	25.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the database client
Context	**configure** ipsec client-db *named-item* client *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cert

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **cert** context

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Context	**configure** ipsec client-db *named-item* client *number* cert
Tree	cert
Introduced	26.7.R1
Platforms	SAR Gen 2

cert-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Certificate Profile name associated with this client
Context	**configure** ipsec client-db *named-item* client *number* cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

status-verify

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **status-verify** context
Context	**configure** ipsec client-db *named-item* client *number* cert status-verify
Tree	status-verify
Introduced	26.7.R1
Platforms	SAR Gen 2

default-result *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The default result of Certificate Status Verification

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Context	**configure** ipsec client-db *named-item* client *number* cert status-verify default-result *keyword*
Tree	default-result
Options	revoked, good
Default	revoked
Introduced	26.7.R1
Platforms	SAR Gen 2

primary *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The primary method used to verify the peer certificate's revocation status
Context	**configure** ipsec client-db *named-item* client *number* cert status-verify primary *keyword*
Tree	primary
Options	crl, ocsp
Default	crl
Introduced	26.7.R1
Platforms	SAR Gen 2

secondary *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The secondary method used to verify the peer certificate's revocation status
Context	**configure** ipsec client-db *named-item* client *number* cert status-verify secondary *keyword*
Tree	secondary
Options	none, crl, ocsp
Default	none
Introduced	26.7.R1
Platforms	SAR Gen 2

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trust-anchor-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Trust Anchor Profile name associated with this client
Context	**configure** ipsec client-db *named-item* client *number* cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

client-name *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client name
Context	**configure** ipsec client-db *named-item* client *number* client-name *named-item*
Tree	client-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

credential

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **credential** context
Context	**configure** ipsec client-db *named-item* client *number* credential
Tree	credential
Description	Commands in this context authenticate peers.

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Introduced	25.3.R2
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf-hex-without-prefix*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Pre-shared key used to authenticate peers
Context	**configure** ipsec client-db *named-item* client *number* credential pre-shared-key *encrypted-leaf-hex-without-prefix*
Tree	pre-shared-key
Description	This command specifies the pre-shared key used to authenticate peers in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
String format	'encrypted-leaf-hex-without-prefix' must have clear text in hex without 0x or end with hash/hash2/hash3/custom
Introduced	25.3.R2
Platforms	SAR Gen 2

identification

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **identification** context
Context	**configure** ipsec client-db *named-item* client *number* identification
Tree	identification
Introduced	25.3.R2
Platforms	SAR Gen 2

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idi

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **idi** context
Context	**configure** ipsec client-db *named-item* client *number* identification idi
Tree	idi
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept any IDi value as a match
Context	**configure** ipsec client-db *named-item* client *number* identification idi any *boolean*
Tree	any
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *display-string-or-empty*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FQDN used as the match criteria for the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi fqdn *display-string-or-empty*
Tree	fqdn
String length	0 to 255

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Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn-suffix *display-string-or-empty*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FQDN suffix used as the match criteria for the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi fqdn-suffix *display-string-or-empty*
Tree	fqdn-suffix
String length	0 to 255
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-prefix *ipv4-prefix*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 prefix used as the match criteria for the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi ipv4-prefix *ipv4-prefix*
Tree	ipv4-prefix
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4-prefix-any *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept any valid IPv4 prefix as a match for the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi ipv4-prefix-any *boolean*
Tree	ipv4-prefix-any
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix *ipv6-prefix*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv6 prefix used as the match criteria for the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi ipv6-prefix *ipv6-prefix*
Tree	ipv6-prefix
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-any *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept any valid IPv6 prefix as a match for the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi ipv6-prefix-any *boolean*

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Tree	ipv6-prefix-any
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

regexp *display-string-or-empty*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Regular expression pattern used to match the IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi regexp *display-string-or-empty*
Tree	regexp
String length	0 to 255
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.7.R1
Platforms	SAR Gen 2

rfc822 *display-string-or-empty*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Email address (RFC 822) used as match criteria for IDi
Context	**configure** ipsec client-db *named-item* client *number* identification idi rfc822 *display-string-or-empty*
Tree	rfc822
String length	0 to 255
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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rfc822-suffix *display-string-or-empty*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Email address domain (RFC 822) as IDi match criteria
Context	**configure** ipsec client-db *named-item* client *number* identification idi rfc822-suffix *display-string-or-empty*
Tree	rfc822-suffix
String length	0 to 255
Notes	The following elements are part of a mandatory choice: **any**, **fqdn**, **fqdn-suffix**, **ipv4-prefix**, **ipv4-prefix-any**, **ipv6-prefix**, **ipv6-prefix-any**, **regexp**, **rfc822**, or **rfc822-suffix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-prefix

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **peer-ip-prefix** context
Context	**configure** ipsec client-db *named-item* client *number* identification peer-ip-prefix
Tree	peer-ip-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix *(ipv4-prefix | ipv6-prefix)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IP prefix used as the match criteria
Context	**configure** ipsec client-db *named-item* client *number* identification peer-ip-prefix ip-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	ip-prefix

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Notes	The following elements are part of a mandatory choice: **ip-prefix**, **ipv4-only**, or **ipv6-only**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-only *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept any valid IPv4 address as a match
Context	**configure** ipsec client-db *named-item* client *number* identification peer-ip-prefix ipv4-only *boolean*
Tree	ipv4-only
Notes	The following elements are part of a mandatory choice: **ip-prefix**, **ipv4-only**, or **ipv6-only**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-only *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept any valid IPv6 address as a match
Context	**configure** ipsec client-db *named-item* client *number* identification peer-ip-prefix ipv6-only *boolean*
Tree	ipv6-only
Notes	The following elements are part of a mandatory choice: **ip-prefix**, **ipv4-only**, or **ipv6-only**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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local

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **local** context
Context	**configure** ipsec client-db *named-item* client *number* local
Tree	local
Introduced	25.7.R1
Platforms	SAR Gen 2

address-assignment

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **address-assignment** context
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment
Tree	address-assignment
Introduced	25.7.R1
Platforms	SAR Gen 2

ipv4

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ipv4** context
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv4
Tree	ipv4
Description	Commands in this context configure the local address assignment for IPv4.
Introduced	25.7.R1
Platforms	SAR Gen 2

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dhcp-server *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local DHCPv4 server name
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv4 dhcp-server *named-item*
Tree	dhcp-server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.7.R1
Platforms	SAR Gen 2

pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv4 server pool name
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv4 pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.7.R1
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance for the local DHCPv4 server

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Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv4 router-instance *string*
Tree	router-instance
Introduced	25.7.R1
Platforms	SAR Gen 2

secondary-pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv4 secondary server pool name
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv4 secondary-pool *named-item*
Tree	secondary-pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.7.R1
Platforms	SAR Gen 2

ipv6

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ipv6** context
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv6
Tree	ipv6
Description	Commands in this context configure the local address assignment for IPv6.
Introduced	25.7.R1
Platforms	SAR Gen 2

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dhcp-server *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local DHCPv6 server name
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv6 dhcp-server *named-item*
Tree	dhcp-server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.7.R1
Platforms	SAR Gen 2

pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv6 server pool name
Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv6 pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.7.R1
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance for the local DHCPv6 server

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Context	**configure** ipsec client-db *named-item* client *number* local address-assignment ipv6 router-instance *string*
Tree	router-instance
Introduced	25.7.R1
Platforms	SAR Gen 2

private-interface *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private interface name used for tunnel setup
Context	**configure** ipsec client-db *named-item* client *number* private-interface *named-item*
Tree	private-interface
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

private-service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the private service used for tunnel setup
Context	**configure** ipsec client-db *named-item* client *number* private-service-name *service-name*
Tree	private-service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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ts-list *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Traffic selector list used by the tunnel
Context	**configure** ipsec client-db *named-item* client *number* ts-list *named-item*
Tree	ts-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-template *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Tunnel template ID
Context	**configure** ipsec client-db *named-item* client *number* tunnel-template *number*
Tree	tunnel-template
Range	1 to 2048
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** ipsec client-db *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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match-list

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **match-list** context
Context	**configure** ipsec client-db *named-item* match-list
Tree	match-list
Introduced	25.3.R2
Platforms	SAR Gen 2

idi *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Use IDi type in the IPsec client matching process
Context	**configure** ipsec client-db *named-item* match-list idi *boolean*
Tree	idi
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-prefix *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Use the peer tunnel IP address in the matching process
Context	**configure** ipsec client-db *named-item* match-list peer-ip-prefix *boolean*
Tree	peer-ip-prefix
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ike-policy [id] *number*

Synopsis	Enter the **ike-policy** list instance
Context	**configure** ipsec ike-policy *number*
Tree	ike-policy
Description	Commands in this context configure an Internet Key Exchange (IKE) policy.
Max. instances	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	IKE policy ID
Context	**configure** ipsec ike-policy *number*
Tree	ike-policy
Range	1 to 2048
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** ipsec ike-policy *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dpd

Synopsis	Enable the **dpd** context
Context	**configure** ipsec ike-policy *number* dpd

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Tree	dpd
Description	Commands in this context configure the dead peer detection mechanism.
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	DPD interval
Context	**configure** ipsec ike-policy *number* dpd interval *number*
Tree	interval
Description	This command specifies the DPD interval. Because more time is necessary to determine if there is incoming traffic, the actual time needed to bring down the tunnel is larger than the DPD interval multiplied by the value configured for maximum retry attempts.
Range	10 to 300
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

max-retries *number*

Synopsis	Maximum number of retries before the tunnel is removed
Context	**configure** ipsec ike-policy *number* dpd max-retries *number*
Tree	max-retries
Range	2 to 5
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

reply-only *boolean*

Synopsis	Initiate DPD request for incoming ESP or IKE packets
Context	**configure** ipsec ike-policy *number* dpd reply-only *boolean*
Tree	reply-only

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-transform *reference*

Synopsis	IKE transform instance associated with the IKE policy
Context	**configure** ipsec ike-policy *number* ike-transform *reference*
Tree	ike-transform
Description	This command specifies the IKE transform instance associated with the IKE policy. If multiple IDs are specified, the system selects an IKE transform based on the proposal of the peer. If the system is a tunnel initiator, it uses the configured IKE transform to generate the SA payload.
Reference	**configure** ipsec ike-transform *number*
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-version-1

Synopsis	Enable the **ike-version-1** context
Context	**configure** ipsec ike-policy *number* ike-version-1
Tree	ike-version-1
Description	Commands in this context configure the IKE version 1 mode of operation that the IKE policy uses.
Notes	The following elements are part of a choice: **ike-version-1** or **ike-version-2**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auth-method *keyword*

Synopsis	Authentication method used with the IKE policy
Context	**configure** ipsec ike-policy *number* ike-version-1 auth-method *keyword*
Tree	auth-method
Options	psk, plain-psk-xauth

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Default	psk
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-mode *keyword*

Synopsis	Mode of operation
Context	**configure** ipsec ike-policy *number* ike-version-1 ike-mode *keyword*
Tree	ike-mode
Options	main, aggressive
Default	main
Introduced	25.3.R2
Platforms	SAR Gen 2

own-auth-method *keyword*

Synopsis	Authentication method used with policy on its own side
Context	**configure** ipsec ike-policy *number* ike-version-1 own-auth-method *keyword*
Tree	own-auth-method
Options	symmetric
Default	symmetric
Introduced	25.3.R2
Platforms	SAR Gen 2

ph1-responder-delete-notify *boolean*

Synopsis	Send delete notification for IKEv1 phase 1 removal
Context	**configure** ipsec ike-policy *number* ike-version-1 ph1-responder-delete-notify *boolean*
Tree	ph1-responder-delete-notify
Description	When configured to **true**, a delete notification is sent to the peer when deleting an IKEv1 phase 1 SA for which it was the responder. When configured to **false**, no notification is sent.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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ike-version-2

Synopsis	Enter the **ike-version-2** context
Context	**configure** ipsec ike-policy *number* ike-version-2
Tree	ike-version-2
Description	Commands in this context configure the IKE version 2 mode of operation that the IKE policy uses.
Notes	The following elements are part of a choice: **ike-version-1** or **ike-version-2**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auth-method *keyword*

Synopsis	Authentication method used with the IKE policy
Context	**configure** ipsec ike-policy *number* ike-version-2 auth-method *keyword*
Tree	auth-method
Options	psk, cert, psk-radius, cert-radius, eap, auto-eap-radius, auto-eap, psk-or-cert
Default	psk
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-eap-method *keyword*

Synopsis	Authentication method used for the remote peer
Context	**configure** ipsec ike-policy *number* ike-version-2 auto-eap-method *keyword*
Tree	auto-eap-method
Description	This command specifies the behavior for the IKEv2 remote-access tunnel when the authentication method uses EAP or potentially another method to authenticate the remote peer.
Options	psk, cert, psk-or-cert
Default	cert
Introduced	25.3.R2
Platforms	SAR Gen 2

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ikev2-fragment

Synopsis	Enable the **ikev2-fragment** context
Context	**configure** ipsec ike-policy *number* ike-version-2 ikev2-fragment
Tree	ikev2-fragment
Description	Commands in this context configure IKEv2 protocol level fragmentation (RFC 7383).
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	Maximum size of the IKEv2 packet
Context	**configure** ipsec ike-policy *number* ike-version-2 ikev2-fragment mtu *number*
Tree	mtu
Range	512 to 9000
Units	octets
Default	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

reassembly-timeout *number*

Synopsis	Timeout for reassembly of IKEv2 message fragments
Context	**configure** ipsec ike-policy *number* ike-version-2 ikev2-fragment reassembly-timeout *number*
Tree	reassembly-timeout
Range	1 to 5
Units	seconds
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

own-auth-method *keyword*

Synopsis	Authentication method for IKE policy on its own side

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Context	**configure** ipsec ike-policy *number* ike-version-2 own-auth-method *keyword*
Tree	own-auth-method
Options	symmetric, psk, cert, eap-only, follow-peer
Default	symmetric
Introduced	25.3.R2
Platforms	SAR Gen 2

own-auto-eap-method *keyword*

Synopsis	Authentication method used on its own side
Context	**configure** ipsec ike-policy *number* ike-version-2 own-auto-eap-method *keyword*
Tree	own-auto-eap-method
Description	This command specifies the behavior for the IKEv2 remote-access tunnel when the authentication method uses EAP or potentially another method to authenticate the peer.
Options	psk, cert
Default	cert
Introduced	25.3.R2
Platforms	SAR Gen 2

ppk-required *boolean*

Synopsis	Force the use of PPK
Context	**configure** ipsec ike-policy *number* ike-version-2 ppk-required *boolean*
Tree	ppk-required
Description	When configured to **true**, the router is forced to use PPKs for the IKEv2 key derivation process. When configured to **false**, PPK use is optional, and the router can fall back to derive keys without PPK.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-idr-after-eap-success *boolean*

Synopsis	Send IDr payload in last IKE authentication response
Context	**configure** ipsec ike-policy *number* ike-version-2 send-idr-after-eap-success *boolean*

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Tree	send-idr-after-eap-success
Description	When configured to **true**, the Identification Responder (IDr) payload is added in the last IKE authentication response after an Extensible Authentication Protocol (EAP) Success packet is received. When configured to **false**, the IDr payload is not included in the last IKE.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-lifetime *number*

Synopsis	Lifetime of the Phase 2 IKE key
Context	**configure** ipsec ike-policy *number* ipsec-lifetime *number*
Tree	ipsec-lifetime
Range	1200 to 31536000
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

limit-init-exchange

Synopsis	Enter the **limit-init-exchange** context
Context	**configure** ipsec ike-policy *number* limit-init-exchange
Tree	limit-init-exchange
Description	Commands in this context limit the number of ongoing IKEv2 initial exchanges per tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of limiting initial IKE exchanges
Context	**configure** ipsec ike-policy *number* limit-init-exchange admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

reduced-max-exchange-timeout *(number | keyword)*

Synopsis	Maximum timeout for in-progress initial IKE exchange
Context	**configure** ipsec ike-policy *number* limit-init-exchange reduced-max-exchange-timeout *(number | keyword)*
Tree	reduced-max-exchange-timeout
Description	This command configures the maximum timeout for the in-progress initial IKE exchange. If a new IKEv2 IKE_SA_INIT request is received when there is an ongoing IKEv2 initial exchange from the same peer, the timeout value of the existing exchange is set to this specified value. If the **none** option is configured for this command, the timeout value remains unchanged.
Range	2 to 60
Units	seconds
Options	none
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

lockout

Synopsis	Enable the **lockout** context
Context	**configure** ipsec ike-policy *number* lockout
Tree	lockout
Description	Commands in this context specify the lockout mechanism for the IPsec tunnel. These commands apply only when the system acts as a tunnel responder.
Introduced	25.3.R2
Platforms	SAR Gen 2

block *(number | keyword)*

Synopsis	Time a client is blocked for failed authentications
Context	**configure** ipsec ike-policy *number* lockout block *(number | keyword)*

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Tree	block
Description	This command configures the time the client is blocked if the number of failed authentications exceeds the configured value within the specified duration.
Range	1 to 1440
Units	minutes
Options	infinite
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	Time interval for failed attempts threshold
Context	**configure** ipsec ike-policy *number* lockout duration *number*
Tree	duration
Description	This command specifies the time interval in which the configured failed authentication count must be exceeded to trigger a lockout.
Range	1 to 60
Units	minutes
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

failed-attempts *number*

Synopsis	Maximum failed authentications allowed in the duration
Context	**configure** ipsec ike-policy *number* lockout failed-attempts *number*
Tree	failed-attempts
Range	1 to 64
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-port-per-ip *number*

Synopsis	Maximum number of ports allowed under same IP address
Context	**configure** ipsec ike-policy *number* lockout max-port-per-ip *number*
Tree	max-port-per-ip
Description	This command configures the maximum number of ports allowed under the same IP address. When the threshold is exceeded and the client is locked out, all ports behind the IP address are blocked.
Range	1 to 32000
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

match-peer-id-to-cert *boolean*

Synopsis	Check IKE peer ID during certificate authentication
Context	**configure** ipsec ike-policy *number* match-peer-id-to-cert *boolean*
Tree	match-peer-id-to-cert
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-traversal

Synopsis	Enable the **nat-traversal** context
Context	**configure** ipsec ike-policy *number* nat-traversal
Tree	nat-traversal
Description	Commands in this context configure the Network Address Translation Traversal (NAT-T) functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

force *boolean*

Synopsis	Enable NAT-T in forced mode
Context	**configure** ipsec ike-policy *number* nat-traversal force *boolean*

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Tree	force
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

force-keep-alive *boolean*

Synopsis	Continue sending keepalive packets (no expiry)
Context	**configure** ipsec ike-policy *number* nat-traversal force-keep-alive *boolean*
Tree	force-keep-alive
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

keep-alive-interval *number*

Synopsis	Keepalive interval for NAT-T
Context	**configure** ipsec ike-policy *number* nat-traversal keep-alive-interval *number*
Tree	keep-alive-interval
Range	120 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

pfs

Synopsis	Enable the **pfs** context
Context	**configure** ipsec ike-policy *number* pfs
Tree	pfs
Description	Commands in this context configure perfect forward secrecy (PFS) on the IPsec tunnel using the policy. PFS provides for a new key exchange each time the Security Association (SA) key is renegotiated.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dh-group *keyword*

Synopsis	Diffie-Helman group used to calculate session keys
Context	**configure** ipsec ike-policy *number* pfs dh-group *keyword*
Tree	dh-group
Description	This command configures which DH group to use for calculating session keys. More bits provide a higher level of security, but require more processing.
Options	group-1, group-2, group-5, group-14, group-15, group-19, group-20, group-21
Default	group-14
Introduced	25.3.R2
Platforms	SAR Gen 2

relay-unsolicited-cfg-attribute

Synopsis	Enter the **relay-unsolicited-cfg-attribute** context
Context	**configure** ipsec ike-policy *number* relay-unsolicited-cfg-attribute
Tree	relay-unsolicited-cfg-attribute
Description	Commands in this context configure attributes returned from the source (such as a RADIUS server) that are returned to the IKEv2 remote-access tunnel client regardless if the client has requested the attribute in the CFG_REQUEST payload.
Introduced	25.3.R2
Platforms	SAR Gen 2

internal-ip4-address *boolean*

Synopsis	Return the IPv4 address from the source to the client
Context	**configure** ipsec ike-policy *number* relay-unsolicited-cfg-attribute internal-ip4-address *boolean*
Tree	internal-ip4-address
Description	When configured to **true**, the system returns the IPv4 address from the source (such as a RADIUS server) to the IKEv2 remote-access tunnel client regardless if the client has requested the address in the CFG_REQUEST payload.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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internal-ip4-dns *boolean*

Synopsis	Return IPv4 DNS server address from source to client
Context	**configure** ipsec ike-policy *number* relay-unsolicited-cfg-attribute internal-ip4-dns *boolean*
Tree	internal-ip4-dns
Description	When configured to **true**, the system returns the IPv4 DNS server address from the source (such as a RADIUS server) to the IKEv2 remote-access tunnel client regardless if the client has requested the address in the CFG_REQUEST payload.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

internal-ip4-netmask *boolean*

Synopsis	Return the IPv4 netmask from the source to the client
Context	**configure** ipsec ike-policy *number* relay-unsolicited-cfg-attribute internal-ip4-netmask *boolean*
Tree	internal-ip4-netmask
Description	When configured to **true**, the system returns the IPv4 netmask from the source (such as a RADIUS server) to the IKEv2 remote-access tunnel client regardless if the client has requested the netmask in the CFG_REQUEST payload.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

internal-ip6-address *boolean*

Synopsis	Return the IPv6 address from the source to the client
Context	**configure** ipsec ike-policy *number* relay-unsolicited-cfg-attribute internal-ip6-address *boolean*
Tree	internal-ip6-address
Description	When configured to **true**, the system returns the IPv6 address from the source (such as a RADIUS server) to the IKEv2 remote-access tunnel client regardless if the client has requested the address in the CFG_REQUEST payload.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

internal-ip6-dns *boolean*

Synopsis	Return IPv6 DNS server address from source to client
Context	**configure** ipsec ike-policy *number* relay-unsolicited-cfg-attribute internal-ip6-dns *boolean*
Tree	internal-ip6-dns
Description	When configured to **true**, the system returns the IPv6 DNS server address from the source (such as a RADIUS server) to the IKEv2 remote-access tunnel client regardless if the client has requested the address in the CFG_REQUEST payload.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-transform [id] *number*

Synopsis	Enter the **ike-transform** list instance
Context	**configure** ipsec ike-transform *number*
Tree	ike-transform
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	IKE transform instance ID
Context	**configure** ipsec ike-transform *number*
Tree	ike-transform
Range	1 to 4096
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dh-group *keyword*

Synopsis	Key exchange group to derive IKE_SA and CHILD_SA keys
Context	**configure** ipsec ike-transform *number* dh-group *keyword*
Tree	dh-group
Options	group-1, group-2, group-5, group-14, group-15, group-19, group-20, group-21
Default	group-14
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-auth-algorithm *keyword*

Synopsis	IKE authentication algorithm for IKE transform instance
Context	**configure** ipsec ike-transform *number* ike-auth-algorithm *keyword*
Tree	ike-auth-algorithm
Options	md-5, sha-1, sha-256, sha-384, sha-512, aes-xcbc, auth-encryption
Default	sha-256
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-encryption-algorithm *keyword*

Synopsis	IKE encryption algorithm for the IKE transform instance
Context	**configure** ipsec ike-transform *number* ike-encryption-algorithm *keyword*
Tree	ike-encryption-algorithm
Options	des, des-3, aes-128, aes-192, aes-256, aes128-gcm8, aes128-gcm16, aes256-gcm8, aes256-gcm16
Default	aes-128
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-prf-algorithm *keyword*

Synopsis	PRF algorithm for the IKE transform instance
Context	**configure** ipsec ike-transform *number* ike-prf-algorithm *keyword*

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Tree	ike-prf-algorithm
Description	This command specifies the pseudo-random function algorithm used for IKE security association. If an encrypted algorithm such as AES-GCM is used for the IKE encryption algorithm, **same-as-auth** cannot be used for the IKE PRF algorithm.
Options	md-5, sha-1, sha-256, sha-384, sha-512, aes-xcbc, same-as-auth
Default	same-as-auth
Introduced	25.3.R2
Platforms	SAR Gen 2

isakmp-lifetime *number*

Synopsis	Phase 1 lifetime for the IKE transform instance
Context	**configure** ipsec ike-transform *number* isakmp-lifetime *number*
Tree	isakmp-lifetime
Range	1200 to 31536000
Units	seconds
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform [id] *number*

Synopsis	Enter the **ipsec-transform** list instance
Context	**configure** ipsec ipsec-transform *number*
Tree	ipsec-transform
Description	Commands in this context create an IPsec transform policy. IPsec transform policies can be shared. A change to the IPsec transform is allowed at any time. The change does not impact tunnels that have been established until they are renegotiated. If the change is required immediately, the tunnel must be cleared (reset) for force renegotiation.
Max. instances	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	IPsec transform policy ID
Context	**configure** ipsec ipsec-transform *number*
Tree	ipsec-transform
Range	1 to 2048
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

esp-auth-algorithm *keyword*

Synopsis	Encapsulating Security Payload (ESP) authentication
Context	**configure** ipsec ipsec-transform *number* esp-auth-algorithm *keyword*
Tree	esp-auth-algorithm
Description	This command specifies the hashing algorithm used for the authentication function. Both ends of a manually configured tunnel must share the same configuration for the IPsec tunnel to enter the operational state.
Options	null, md-5, sha-1, sha-256, sha-384, sha-512, aes-xcbc, auth-encryption
Default	sha-256
Introduced	25.3.R2
Platforms	SAR Gen 2

esp-encryption-algorithm *keyword*

Synopsis	Encryption algorithm for the IPsec transform session
Context	**configure** ipsec ipsec-transform *number* esp-encryption-algorithm *keyword*
Tree	esp-encryption-algorithm
Description	This command configures the encryption used for the CHILD_SA. Both ends of a manually configured tunnel must share the same encryption algorithm for the IPsec tunnel to enter the operational state. When AES-GCM or AES-GMAC is configured: • the authentication encryption must be set to **auth-encryption** • the system does not include the authentication algorithm in the ESP proposal of the SA payload • IPsec transform cannot be used for manual keying

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Options	null, des, des-3, aes-128, aes-192, aes-256, aes128-gcm8, aes128-gcm12, aes128-gcm16, aes192-gcm8, aes192-gcm12, aes192-gcm16, aes256-gcm8, aes256-gcm12, aes256-gcm16, null-aes128-gmac, null-aes192-gmac, null-aes256-gmac
Default	aes-128
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-sequence-number *boolean*

Synopsis	Enable extended sequence numbering support
Context	**configure** ipsec ipsec-transform *number* extended-sequence-number *boolean*
Tree	extended-sequence-number
Description	When configured to **true**, the router supports 64-bit extended sequence numbering. This numbering is used for high throughput CHILD_SA to avoid frequent re-keying caused by sequence numbering wrap around. When configured to **false**, the router only supports 32-bit sequence numbering.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-lifetime *number*

Synopsis	Phase 2 lifetime for the IPsec transform session
Context	**configure** ipsec ipsec-transform *number* ipsec-lifetime *number*
Tree	ipsec-lifetime
Description	This command configures the lifetime of the Phase 2 IKE key. When unconfigured, the value is inherited from the IPsec lifetime configured in the corresponding IKE policy configured for the same IPsec gateway or IPsec tunnel.
Range	1200 to 31536000
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

pfs-dh-group *keyword*

Synopsis	Diffie-Hellman group used for PFS compilation

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Context	**configure** ipsec ipsec-transform *number* pfs-dh-group *keyword*
Tree	pfs-dh-group
Description	This command configures the DH group used for Perfect Forward Secrecy (PFS) compilation during CHILD_SA rekeying. When unconfigured, the value is inherited from the DH group value from the IPsec gateway or IPsec tunnel.
Options	none, group-1, group-2, group-5, group-14, group-15, group-19, group-20, group-21
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transport-mode-profile [name] *named-item*

Synopsis	Enter the **ipsec-transport-mode-profile** list instance
Context	**configure** ipsec ipsec-transport-mode-profile *named-item*
Tree	ipsec-transport-mode-profile
Description	Commands in this context configure IPsec-specific attributes that allow an IP tunnel (for example, GRE) to be protected by using IPsec transport mode.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec transport mode profile name string
Context	**configure** ipsec ipsec-transport-mode-profile *named-item*
Tree	ipsec-transport-mode-profile
Description	This command specifies the name of the IPsec transport mode profile.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

key-exchange

Synopsis	Enter the **key-exchange** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange
Tree	key-exchange
Description	Commands in this context configure the key exchange used each time the Security Association (SA) key is renegotiated.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

Synopsis	Enter the **dynamic** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic
Tree	dynamic
Description	Commands in this context configure dynamic keying for the transport mode profile.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish *boolean*

Synopsis	Attempt to establish a phase 1 exchange automatically
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic auto-establish *boolean*
Tree	auto-establish
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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cert

Synopsis	Enter the **cert** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert
Tree	cert
Description	Commands in this context configure the attributes of the dynamic keying certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

Synopsis	Enter the **status-verify** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert status-verify
Tree	status-verify
Description	Commands in this context configure attributes of Certificate Status Verification (CSV).
Introduced	25.3.R2
Platforms	SAR Gen 2

default-result *keyword*

Synopsis	Default result for Certificate Status Verification
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert status-verify default-result *keyword*
Tree	default-result

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Description	This command specifies the default certificate revocation status result to use when all configured CSV methods fail to return a result.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert status-verify primary *keyword*
Tree	primary
Description	This command configures the primary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the certificate of the peer.
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert status-verify secondary *keyword*
Tree	secondary
Description	This command specifies the secondary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the peer certificate.
Options	none, crl, ocsp
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name

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Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Enter the **id** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic id
Tree	id
Description	Commands in this context specify the local ID used for IDi or IDr for IKEv2 negotiation. The default behavior depends on the local authentication method as follows: • Psk: local tunnel IP address • Cert-auth: subject of the local certificate
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

Synopsis	FQDN used as the local ID IKE type
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

Synopsis	IPv4 as the local ID type
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic id ipv4 *ipv4-unicast-address*
Tree	ipv4

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IPv6 used as the local IKE ID type
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-policy *reference*

Synopsis	IKE policy ID
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic ike-policy *reference*
Tree	ike-policy
Description	This command specifies the ID of the IKE policy used for IKE negotiation. The **ipsec-transport-mode-profile** configuration only supports IKEv2.
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform *reference*

Synopsis	IPsec transform IDs used by the dynamic key
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic ipsec-transform *reference*
Tree	ipsec-transform
Description	This command specifies IPsec transform IDs used for CHILD_SA negotiation.
Reference	**configure** ipsec ipsec-transform *number*

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Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

ppk

Synopsis	Enter the **ppk** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic ppk
Tree	ppk
Description	Commands in this context configure the PPKs to use for dynamic keying of the IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

Synopsis	PPK ID
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic ppk id *reference*
Tree	id
Reference	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

list *reference*

Synopsis	PPK list instance name
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic ppk list *reference*
Tree	list
Reference	**configure** ipsec ppk-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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pre-shared-key *encrypted-leaf*

Synopsis	Pre-shared key for IKE authentication
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* key-exchange dynamic pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for IKE authentication in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

Synopsis	Enter the **max-history-key-records** context
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* max-history-key-records
Tree	max-history-key-records
Description	Commands in this context configure the settings for recording historical IPsec keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

Synopsis	Maximum number of recent records
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* max-history-key-records esp *number*
Tree	esp
Range	1 to 48
Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

Synopsis	Maximum number of historical IKE key records

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Context	**configure** ipsec ipsec-transport-mode-profile *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

replay-window *number*

Synopsis	Anti-replay window size
Context	**configure** ipsec ipsec-transport-mode-profile *named-item* replay-window *number*
Tree	replay-window
Description	This command specifies the size of an IPsec anti-replay window. If unconfigured, IPsec anti-replay is disabled.
Range	32 | 64 | 128 | 256 | 512
Units	packets
Introduced	25.3.R2
Platforms	SAR Gen 2

ppk-list [name] *named-item*

Synopsis	Enter the **ppk-list** list instance
Context	**configure** ipsec ppk-list *named-item*
Tree	ppk-list
Description	Commands in this context configure the list of Post-quantum Preshared Keys (PPKs) to use for IKEv2 key derivation, as described in RFC 8784.
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	PPK list instance name
Context	**configure** ipsec ppk-list *named-item*
Tree	ppk-list

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ppk [ppk-id] *named-item-64*

Synopsis	Enter the **ppk** list instance
Context	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Tree	ppk
Description	Commands in this context configure the attributes for a PPK within the list.
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ppk-id**] *named-item-64*

Synopsis	PPK ID
Context	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Tree	ppk
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

value

Synopsis	Enable the **value** context
Context	**configure** ipsec ppk-list *named-item* ppk *named-item-64* value
Tree	value
Description	Commands in this context configure the values for the specified PPK.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ascii *encrypted-leaf*

Synopsis	PPK value as an ASCII string
Context	**configure** ipsec ppk-list *named-item* ppk *named-item-64* value ascii *encrypted-leaf*
Tree	ascii
Description	This command specifies the PPK value as an ASCII string in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Notes	The following elements are part of a mandatory choice: **ascii** or **hex**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex *encrypted-leaf-hex*

Synopsis	PPK value as a hexadecimal string with prefix 0x
Context	**configure** ipsec ppk-list *named-item* ppk *named-item-64* value hex *encrypted-leaf-hex*
Tree	hex
Description	This command specifies the PPK value as a hexadecimal string with prefix 0x in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
String format	'encrypted-leaf-hex' must have clear text in hex with prefix 0x or end with hash/hash2/hash3/custom
Notes	The following elements are part of a mandatory choice: **ascii** or **hex**.
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	**configure** ipsec radius

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Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy [name] *named-item*

Synopsis	Enter the **accounting-policy** list instance
Context	**configure** ipsec radius accounting-policy *named-item*
Tree	accounting-policy
Description	Commands in this context configure RADIUS accounting policies to collect accounting statistics.
Max. instances	100
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	RADIUS accounting policy name
Context	**configure** ipsec radius accounting-policy *named-item*
Tree	accounting-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

include-radius-attribute

Synopsis	Enter the **include-radius-attribute** context
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute
Tree	include-radius-attribute
Description	Commands in this context specify the RADIUS attributes that are to be included in the RADIUS Authentication-Request messages.
Introduced	25.3.R2

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Platforms	SAR Gen 2

acct-stats *boolean*

Synopsis	Include accounting attributes in RADIUS packets
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute acct-stats *boolean*
Tree	acct-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

called-station-id *boolean*

Synopsis	Include the Called-Station-Id attribute
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute called-station-id *boolean*
Tree	called-station-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

calling-station-id *boolean*

Synopsis	Include the Calling-Station-Id attribute
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute calling-station-id *boolean*
Tree	calling-station-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

framed-ip-addr *boolean*

Synopsis	Include the Framed-IP-Address attribute

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Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute framed-ip-addr *boolean*
Tree	framed-ip-addr
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

framed-ipv6-prefix *boolean*

Synopsis	Include the Framed-IPv6-Prefix attribute
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute framed-ipv6-prefix *boolean*
Tree	framed-ipv6-prefix
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nas-identifier *boolean*

Synopsis	Include the NAS-Identifier attribute
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute nas-identifier *boolean*
Tree	nas-identifier
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nas-ip-addr *boolean*

Synopsis	Include the NAS-IP-Address attribute
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute nas-ip-addr *boolean*
Tree	nas-ip-addr
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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nas-port-id *boolean*

Synopsis	Include the NAS-Port-Id attribute
Context	**configure** ipsec radius accounting-policy *named-item* include-radius-attribute nas-port-id *boolean*
Tree	nas-port-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-server-policy *reference*

Synopsis	Referenced RADIUS server policy
Context	**configure** ipsec radius accounting-policy *named-item* radius-server-policy *reference*
Tree	radius-server-policy
Reference	**configure** aaa radius server-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

update-interval

Synopsis	Enter the **update-interval** context
Context	**configure** ipsec radius accounting-policy *named-item* update-interval
Tree	update-interval
Description	Commands in this context determine how RADIUS interim-update packets are sent for IKEv2 remote-access tunnels.
Introduced	25.3.R2
Platforms	SAR Gen 2

jitter *number*

Synopsis	Jitter interval for sending each interim-update packet
Context	**configure** ipsec radius accounting-policy *named-item* update-interval jitter *number*
Tree	jitter
Description	This command specifies the jitter interval for the RADIUS interim-update packets.

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When unconfigured, the system uses 10% of the update interval value.

Range	0 to 3600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Update interval of the RADIUS accounting data
Context	**configure** ipsec radius accounting-policy *named-item* update-interval value *number*
Tree	value
Description	This command configures the update interval of the RADIUS accounting data. If a value of 0 is configured, no intermediate updates are sent.
Range	0 | 5 to 259200
Units	minutes
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-policy [name] *named-item*

Synopsis	Enter the **authentication-policy** list instance
Context	**configure** ipsec radius authentication-policy *named-item*
Tree	authentication-policy
Description	Commands in this context configure the RADIUS authentication policy associated with the IPsec gateway.
Max. instances	100
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	RADIUS authentication policy name
Context	**configure** ipsec radius authentication-policy *named-item*
Tree	authentication-policy

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

include-radius-attribute

Synopsis	Enter the **include-radius-attribute** context
Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute
Tree	include-radius-attribute
Description	Commands in this context specify the RADIUS attributes to be included in the RADIUS Authentication-Request messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

called-station-id *boolean*

Synopsis	Include the Called-Station-Id attribute
Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute called-station-id *boolean*
Tree	called-station-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

calling-station-id *boolean*

Synopsis	Include the Calling-Station-Id attribute
Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute calling-station-id *boolean*
Tree	calling-station-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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client-cert-subject-key-id *boolean*

Synopsis	Include the Subject Key Identifier
Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute client-cert-subject-key-id *boolean*
Tree	client-cert-subject-key-id
Description	When configured to **true**, the Subject Key Identifier of the certificate of the peer is included in the RADIUS Access-Request packet as VSA: Alc-Subject-Key-Identifier.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nas-identifier *boolean*

Synopsis	Include the NAS-Identifier attribute
Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute nas-identifier *boolean*
Tree	nas-identifier
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nas-ip-addr *boolean*

Synopsis	Include the NAS-IP-Address attribute
Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute nas-ip-addr *boolean*
Tree	nas-ip-addr
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nas-port-id *boolean*

Synopsis	Include the NAS-Port-Id attribute

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Context	**configure** ipsec radius authentication-policy *named-item* include-radius-attribute nas-port-id *boolean*
Tree	nas-port-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

password *encrypted-leaf*

Synopsis	Password used in RADIUS access requests
Context	**configure** ipsec radius authentication-policy *named-item* password *encrypted-leaf*
Tree	password
Description	This command specifies the password used in RADIUS access requests in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-server-policy *reference*

Synopsis	Referenced RADIUS server policy
Context	**configure** ipsec radius authentication-policy *named-item* radius-server-policy *reference*
Tree	radius-server-policy
Reference	**configure** aaa radius server-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

show-ipsec-keys *boolean*

Synopsis	Show IPsec IKE and ESP keys in the output
Context	**configure** ipsec show-ipsec-keys *boolean*
Tree	show-ipsec-keys

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Description	When configured to **true**, this command allows IPsec keys to be (optionally) included in the display output of certain **debug** and **admin** commands. When configured to **false**, the key display is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static-sa [name] *named-item*

Synopsis	Enter the **static-sa** list instance
Context	**configure** ipsec static-sa *named-item*
Tree	static-sa
Max. instances	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Static SA name
Context	**configure** ipsec static-sa *named-item*
Tree	static-sa
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication

Synopsis	Enable the **authentication** context
Context	**configure** ipsec static-sa *named-item* authentication
Tree	authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

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algorithm *keyword*

Synopsis	Authentication algorithm used for an IPsec manual SA
Context	**configure** ipsec static-sa *named-item* authentication algorithm *keyword*
Tree	algorithm
Options	md5, sha1
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

key *encrypted-leaf*

Synopsis	Key used for the authentication algorithm
Context	**configure** ipsec static-sa *named-item* authentication key *encrypted-leaf*
Tree	key
Description	This command specifies the key used for the authentication algorithm in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 110
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *named-item*

Synopsis	Text description
Context	**configure** ipsec static-sa *named-item* description *named-item*
Tree	description
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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direction *keyword*

Synopsis	Direction to which the static SA entry can be applied
Context	**configure** ipsec static-sa *named-item* direction *keyword*
Tree	direction
Options	inbound, outbound, bidirectional
Default	bidirectional
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *keyword*

Synopsis	IPsec protocol used with the static SA
Context	**configure** ipsec static-sa *named-item* protocol *keyword*
Tree	protocol
Options	ah, esp
Default	esp
Introduced	25.3.R2
Platforms	SAR Gen 2

spi *number*

Synopsis	Security Parameter Index (SPI) for the static SA
Context	**configure** ipsec static-sa *named-item* spi *number*
Tree	spi
Description	This command specifies the SPI for the static SA. When the **direction** command is set to **inbound**, the SPI is used to look up the instruction to verify and decrypt the incoming IPsec packets. When the **direction** command is set to **outbound**, the SPI is used in the encoding of the outgoing packets. The remote node can use the SPI to look up the instruction to verify and decrypt the packet. When unconfigured, the static SA cannot be used.
Range	256 to 16383
Introduced	25.3.R2
Platforms	SAR Gen 2

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trust-anchor-profile [name] *named-item*

Synopsis	Enter the **trust-anchor-profile** list instance
Context	**configure** ipsec trust-anchor-profile *named-item*
Tree	trust-anchor-profile
Max. instances	10128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Trust anchor profile name for IPsec tunnel or gateway
Context	**configure** ipsec trust-anchor-profile *named-item*
Tree	trust-anchor-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor [ca-profile] *reference*

Synopsis	Add a list entry for **trust-anchor**
Context	**configure** ipsec trust-anchor-profile *named-item* trust-anchor *reference*
Tree	trust-anchor
Description	Commands in this context configure a CA profile as a trust anchor CA.
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile**] *reference*

Synopsis	Name of the CA profile as a trust anchor profile

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Context	**configure** ipsec trust-anchor-profile *named-item* trust-anchor *reference*
Tree	trust-anchor
Reference	**configure** system security pki ca-profile *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ts-list [name] *named-item*

Synopsis	Enter the **ts-list** list instance
Context	**configure** ipsec ts-list *named-item*
Tree	ts-list
Description	Commands in this context configure Traffic Selector (TS) settings.
Max. instances	32768
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Traffic Selector (TS) list name
Context	**configure** ipsec ts-list *named-item*
Tree	ts-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

local

Synopsis	Enter the **local** context
Context	**configure** ipsec ts-list *named-item* local
Tree	local

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Description	Commands in this context configure a local TS list, a traffic selector, such as TSr, when the system acts as an IKEv2 responder.
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** ipsec ts-list *named-item* local entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	TS list entry ID
Context	**configure** ipsec ts-list *named-item* local entry *number*
Tree	entry
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Enable the **address** context
Context	**configure** ipsec ts-list *named-item* local entry *number* address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for address range in IKEv2 traffic selector
Context	**configure** ipsec ts-list *named-item* local entry *number* address prefix *(ipv4-prefix | ipv6-prefix)*

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Tree	prefix
Notes	The following elements are part of a mandatory choice: **prefix** or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* address range
Tree	range
Notes	The following elements are part of a mandatory choice: **prefix** or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Lower bound of the IP address range for the entry
Context	**configure** ipsec ts-list *named-item* local entry *number* address range begin *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	begin
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Upper bound of the IP address range
Context	**configure** ipsec ts-list *named-item* local entry *number* address range end *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	end
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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protocol

Synopsis	Enable the **protocol** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol
Tree	protocol
Description	Commands in this context specify the protocol settings for the IKEv2 traffic selector.
Introduced	25.3.R2
Platforms	SAR Gen 2

any

Synopsis	Match any protocol ID
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol any
Tree	any
Notes	The following elements are part of a mandatory choice: **any** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Enable the **id** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id
Tree	id
Notes	The following elements are part of a mandatory choice: **any** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp
Tree	icmp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp port-range
Tree	port-range
Description	Commands in this context configure port range information for the protocol.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-code *number*

Synopsis	Lower bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp port-range begin-icmp-code *number*
Tree	begin-icmp-code
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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begin-icmp-type *number*

Synopsis	Lower bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp port-range begin-icmp-type *number*
Tree	begin-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-code *number*

Synopsis	Upper bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp port-range end-icmp-code *number*
Tree	end-icmp-code
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-type *number*

Synopsis	Upper bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp port-range end-icmp-type *number*
Tree	end-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context

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Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6
Tree	icmp6
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6 opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6 port-range
Tree	port-range
Description	Commands in this context configure port range information for the protocol.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-code *number*

Synopsis	Lower bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6 port-range begin-icmp-code *number*
Tree	begin-icmp-code
Range	0 to 255

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-type *number*

Synopsis	Lower bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6 port-range begin-icmp-type *number*
Tree	begin-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-code *number*

Synopsis	Upper bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6 port-range end-icmp-code *number*
Tree	end-icmp-code
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-type *number*

Synopsis	Upper bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id icmp6 port-range end-icmp-type *number*
Tree	end-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

mipv6

Synopsis	Enter the **mipv6** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id mipv6
Tree	mipv6
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id mipv6 opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id mipv6 port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range

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Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id mipv6 port-range begin *number*
Tree	begin
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id mipv6 port-range end *number*
Tree	end
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-id-with-any-port *(keyword | number)*

Synopsis	Protocol ID that accepts any port value
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id protocol-id-with-any-port *(keyword | number)*
Tree	protocol-id-with-any-port
Range	1 to 255
Options	icmp, tcp, udp, icmp6, sctp, mipv6
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sctp

Synopsis	Enter the **sctp** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id sctp

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Tree	sctp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id sctp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id sctp port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id sctp port-range begin *number*
Tree	begin
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id sctp port-range end *number*
Tree	end
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp

Synopsis	Enter the **tcp** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id tcp
Tree	tcp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id tcp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id tcp port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id tcp port-range begin *number*
Tree	begin
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id tcp port-range end *number*
Tree	end
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

udp

Synopsis	Enter the **udp** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id udp

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Tree	udp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id udp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id udp port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id udp port-range begin *number*
Tree	begin
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* local entry *number* protocol id udp port-range end *number*
Tree	end
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote

Synopsis	Enter the **remote** context
Context	**configure** ipsec ts-list *named-item* remote
Tree	remote
Description	Commands in this context configure a remote TS list, a traffic selector, such as TSr, when the system acts as an IKEv2 responder.
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** ipsec ts-list *named-item* remote entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	TS list entry ID
Context	**configure** ipsec ts-list *named-item* remote entry *number*
Tree	entry

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Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address

Synopsis	Enable the **address** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for address range in IKEv2 traffic selector
Context	**configure** ipsec ts-list *named-item* remote entry *number* address prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	The following elements are part of a mandatory choice: **prefix** or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* address range
Tree	range
Notes	The following elements are part of a mandatory choice: **prefix** or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Lower bound of the IP address range for the entry

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Context	**configure** ipsec ts-list *named-item* remote entry *number* address range begin *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	begin
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Upper bound of the IP address range
Context	**configure** ipsec ts-list *named-item* remote entry *number* address range end *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	end
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol

Synopsis	Enable the **protocol** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol
Tree	protocol
Description	Commands in this context specify the protocol settings for the IKEv2 traffic selector.
Introduced	25.3.R2
Platforms	SAR Gen 2

any

Synopsis	Match any protocol ID
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol any
Tree	any
Notes	The following elements are part of a mandatory choice: **any** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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id

Synopsis	Enable the **id** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id
Tree	id
Notes	The following elements are part of a mandatory choice: **any** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp
Tree	icmp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp port-range
Tree	port-range

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Description	Commands in this context configure port range information for the protocol.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-code *number*

Synopsis	Lower bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp port-range begin-icmp-code *number*
Tree	begin-icmp-code
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-type *number*

Synopsis	Lower bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp port-range begin-icmp-type *number*
Tree	begin-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-code *number*

Synopsis	Upper bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp port-range end-icmp-code *number*
Tree	end-icmp-code
Range	0 to 255
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-type *number*

Synopsis	Upper bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp port-range end-icmp-type *number*
Tree	end-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6
Tree	icmp6
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6 opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6 port-range
Tree	port-range
Description	Commands in this context configure port range information for the protocol.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-code *number*

Synopsis	Lower bound of the ICMP code range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6 port-range begin-icmp-code *number*
Tree	begin-icmp-code
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-icmp-type *number*

Synopsis	Lower bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6 port-range begin-icmp-type *number*
Tree	begin-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-code *number*

Synopsis	Upper bound of the ICMP code range

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Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6 port-range end-icmp-code *number*
Tree	end-icmp-code
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-icmp-type *number*

Synopsis	Upper bound of the ICMP type range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id icmp6 port-range end-icmp-type *number*
Tree	end-icmp-type
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mipv6

Synopsis	Enter the **mipv6** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id mipv6
Tree	mipv6
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id mipv6 opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.

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Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id mipv6 port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id mipv6 port-range begin *number*
Tree	begin
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id mipv6 port-range end *number*
Tree	end
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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protocol-id-with-any-port *(keyword | number)*

Synopsis	Protocol ID that accepts any port value
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id protocol-id-with-any-port *(keyword | number)*
Tree	protocol-id-with-any-port
Range	1 to 255
Options	icmp, tcp, udp, icmp6, sctp, mipv6
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sctp

Synopsis	Enter the **sctp** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id sctp
Tree	sctp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id sctp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id sctp port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id sctp port-range begin *number*
Tree	begin
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id sctp port-range end *number*
Tree	end
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp

Synopsis	Enter the **tcp** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id tcp

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Tree	tcp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id tcp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id tcp port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id tcp port-range begin *number*
Tree	begin
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id tcp port-range end *number*
Tree	end
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

udp

Synopsis	Enter the **udp** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id udp
Tree	udp
Notes	The following elements are part of a mandatory choice: **icmp**, **icmp6**, **mipv6**, **protocol-id-with-any-port**, **sctp**, **tcp**, or **udp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

opaque

Synopsis	Support OPAQUE ports
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id udp opaque
Tree	opaque
Description	This command allows the protocol ID to be accepted even when the port information is not available.
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-range

Synopsis	Enable the **port-range** context
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id udp port-range
Tree	port-range
Notes	The following elements are part of a choice: **opaque** or **port-range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

begin *number*

Synopsis	Lower bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id udp port-range begin *number*
Tree	begin
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** ipsec ts-list *named-item* remote entry *number* protocol id udp port-range end *number*
Tree	end
Range	0 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-template [id] *number*

Synopsis	Enter the **tunnel-template** list instance
Context	**configure** ipsec tunnel-template *number*

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Tree	tunnel-template
Max. instances	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Tunnel template ID
Context	**configure** ipsec tunnel-template *number*
Tree	tunnel-template
Range	1 to 2048
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

Synopsis	Clear the Do-not-Fragment (DF) bit
Context	**configure** ipsec tunnel-template *number* clear-df-bit *boolean*
Tree	clear-df-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

copy-traffic-class-upon-decapsulation *boolean*

Synopsis	Enable traffic class copy upon decapsulation
Context	**configure** ipsec tunnel-template *number* copy-traffic-class-upon-decapsulation *boolean*
Tree	copy-traffic-class-upon-decapsulation
Description	When configured to **true**, the system copies the traffic class from the outer tunnel IP packet header to the payload IP packet header in the decapsulating direction (public to private). When configured to **false**, the system does not copy the traffic class from the outer IP packet to the payload IP packet header upon decapsulation.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** ipsec tunnel-template *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

encapsulated-ip-mtu *number*

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** ipsec tunnel-template *number* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet to the IPsec tunnel, the IP tunnel, or the dynamic tunnels terminated on the IPsec Gateway. If the encapsulated IPv4 or IPv6 tunnel packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	octets
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-generation

Synopsis	Enter the **icmp-generation** context
Context	**configure** ipsec tunnel-template *number* icmp-generation
Tree	icmp-generation
Description	Commands in this context configure settings for ICMPv4 message generation.
Introduced	25.3.R2
Platforms	SAR Gen 2

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frag-required

Synopsis	Enter the **frag-required** context
Context	**configure** ipsec tunnel-template *number* icmp-generation frag-required
Tree	frag-required
Description	Commands in this context configure the attributes for sending generated ICMP Destination Unreachable "fragmentation needed and DF set" messages (type 3, code 4) back to the source, if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending ICMP messages
Context	**configure** ipsec tunnel-template *number* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval for sending ICMP messages
Context	**configure** ipsec tunnel-template *number* icmp-generation frag-required interval *number*
Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10

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Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

Synopsis	Maximum number of ICMP messages that can be sent
Context	**configure** ipsec tunnel-template *number* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-generation

Synopsis	Enter the **icmp6-generation** context
Context	**configure** ipsec tunnel-template *number* icmp6-generation
Tree	icmp6-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

pkt-too-big

Synopsis	Enter the **pkt-too-big** context
Context	**configure** ipsec tunnel-template *number* icmp6-generation pkt-too-big
Tree	pkt-too-big
Description	Commands in this context configure values for the ICMPv6 Packet Too Big (PTB) messages. The system sends PTB messages if an IPv6 packet is received on the private side that is larger than 1280 bytes and also exceeds the private MTU of the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** ipsec tunnel-template *number* icmp6-generation pkt-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Maximum interval during which PTB messages can be sent
Context	**configure** ipsec tunnel-template *number* icmp6-generation pkt-too-big interval *number*
Tree	interval
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

Synopsis	Max ICMPv6 messages that can be sent during interval
Context	**configure** ipsec tunnel-template *number* icmp6-generation pkt-too-big message-count *number*
Tree	message-count
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-default-route *boolean*

Synopsis	Ignore any full range traffic selector in TSi
Context	**configure** ipsec tunnel-template *number* ignore-default-route *boolean*
Tree	ignore-default-route
Description	When configured to **true**, any full range traffic selector is ignored when creating a reverse route. When configured to **false**, no CHILD_SA is created if any full range traffic selector is included in TSi.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

Synopsis	Maximum size of the IP MTU for the payload packets
Context	**configure** ipsec tunnel-template *number* ip-mtu *number*
Tree	ip-mtu
Range	512 to 9000
Units	octets
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform *reference*

Synopsis	IPsec transform ID for the tunnel template
Context	**configure** ipsec tunnel-template *number* ipsec-transform *reference*
Tree	ipsec-transform
Reference	**configure** ipsec ipsec-transform *number*
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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pmtu-discovery-aging *number*

Synopsis	Aging out time of the learned path MTU
Context	**configure** ipsec tunnel-template *number* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public and private MTU expiration time. The temporary MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

ppk-list *reference*

Synopsis	PPK list to use in the tunnel template
Context	**configure** ipsec tunnel-template *number* ppk-list *reference*
Tree	ppk-list
Description	This command specifies the PPK list to use in the tunnel template, which represents a list of PPKs available for the IPsec gateway. The actual PPK to use depends on the tunnel initiator.
Reference	**configure** ipsec ppk-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

private-tcp-mss-adjust *number*

Synopsis	New TCP MSS value on the private side
Context	**configure** ipsec tunnel-template *number* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the new (adjusted) TCP MSS value of TCP SYN packets on the private side. When unconfigured, the MSS value is derived from the received TCP SYN packet on the private side.
Range	512 to 9000
Units	octets

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Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** ipsec tunnel-template *number* propagate-pmtu-v4 *boolean*
Tree	propagate-pmtu-v4
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv4 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v6 *boolean*

Synopsis	Enable propagation of the path MTU to IPv6 hosts
Context	**configure** ipsec tunnel-template *number* propagate-pmtu-v6 *boolean*
Tree	propagate-pmtu-v6
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv6 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

Synopsis	New TCP MSS value on the public side
Context	**configure** ipsec tunnel-template *number* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command specifies the new (adjusted) TCP MSS value for the TCP traffic in an IPsec tunnel which is sent from the public network to the private network. The system can use this value to adjust or insert the MSS option in the TCP SYN packet. When unconfigured, the MSS value is derived from the public MTU and IPsec overhead.
Range	512 to 9000
Units	octets

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Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

replay-window *number*

Synopsis	Anti-replay window size for the tunnel template
Context	**configure** ipsec tunnel-template *number* replay-window *number*
Tree	replay-window
Range	32 | 64 | 128 | 256 | 512
Introduced	25.3.R2
Platforms	SAR Gen 2

reverse-route

Synopsis	Enter the **reverse-route** context
Context	**configure** ipsec tunnel-template *number* reverse-route
Tree	reverse-route
Description	Commands in this context configure the dynamic LAN-to-LAN (DL2L) tunnel reverse-route options for the tunnel template.
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Metric used for DL2L tunnel reverse routes
Context	**configure** ipsec tunnel-template *number* reverse-route metric *number*
Tree	metric
Description	This command configures the metric for reverse routes. The system uses the metric when selecting a route to install in the route table.
Range	0 to 65535
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Preference used for DL2L tunnel reverse routes
Context	**configure** ipsec tunnel-template *number* reverse-route preference *number*
Tree	preference
Description	This command specifies the route preference assigned to the DL2L tunnel reverse route. The system uses the preference when selecting a route to install in the route table.
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

sp-reverse-route *keyword*

Synopsis	Reverse route creation method in private service
Context	**configure** ipsec tunnel-template *number* sp-reverse-route *keyword*
Tree	sp-reverse-route
Description	This command allows the system to automatically create a reverse route based on dynamic LAN-to-LAN tunnel's TSi in private service.
Options	none, use-security-policy
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.12 isa commands

```
configure
   - isa
      - apply-groups reference
      - apply-groups-exclude reference
      - nat-group number
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - log
            - suppress-lsn-events boolean
            - suppress-lsn-sub-blocks-free boolean
         - mda slot-mda
         - redundancy
            - active-mda-limit number
            - intra-chassis
               - active-standby
      - tunnel-group number
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - backup slot-mda
         - description description
         - ipsec-responder-only boolean
         - isa-scale-mode keyword
         - multi-active
            - active-isa-number number
            - isa slot-mda
            - member-pool reference
         - primary slot-mda
         - reassembly
            - max-wait-time number
         - stats-collection
            - isa-dp-cpu-usage boolean
      - tunnel-member-pool named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - isa slot-mda
```


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4.12.1 isa command descriptions

isa

Synopsis	Enter the **isa** context
Context	**configure** isa
Tree	isa
Description	Commands in this context configure the Integrated Services Adapter (ISA).
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-group [id] *number*

Synopsis	Enter the **nat-group** list instance
Context	**configure** isa nat-group *number*
Tree	nat-group
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	NAT group ID
Context	**configure** isa nat-group *number*
Tree	nat-group
Range	1 to 4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the NAT group
Context	**configure** isa nat-group *number* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** isa nat-group *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

log

Synopsis	Enter the **log** context
Context	**configure** isa nat-group *number* log
Tree	log
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-lsn-events *boolean*

Synopsis	Suppress LSN events when RADIUS accounting is enabled
Context	**configure** isa nat-group *number* log suppress-lsn-events *boolean*
Tree	suppress-lsn-events
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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suppress-lsn-sub-blocks-free *boolean*

Synopsis	Suppress LSN Free block and NAT pool block notification
Context	**configure** isa nat-group *number* log suppress-lsn-sub-blocks-free *boolean*
Tree	suppress-lsn-sub-blocks-free
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mda [mda-id] *slot-mda*

Synopsis	Add a list entry for **mda**
Context	**configure** isa nat-group *number* mda *slot-mda*
Tree	mda
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mda-id**] *slot-mda*

Synopsis	MDA ID for ISA NAT group
Context	**configure** isa nat-group *number* mda *slot-mda*
Tree	mda
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

redundancy

Synopsis	Enter the **redundancy** context
Context	**configure** isa nat-group *number* redundancy
Tree	redundancy
Description	Commands in this context configure intra-chassis redundancy mode for the NAT group.
Introduced	25.3.R2
Platforms	SAR Gen 2

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active-mda-limit *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Number of active ESA-VM or ISA members in the NAT group
Context	**configure** isa nat-group *number* redundancy active-mda-limit *number*
Tree	active-mda-limit
Description	This command configures the number of active ESA-VM or ISA members in a NAT group. The system automatically selects which ESA-VMs or ISAs are active. In active/standby (A/S) redundancy mode, the correlation between ESA-VM or ISA members is direct, meaning each ESA-VM or ISA equates to one member. In active/active (A/A) redundancy mode, an individual ESA-VM or ISA may be associated with multiple members. For A/S redundancy, any surplus ESA-VMs or ISAs beyond the configured active threshold automatically transition to standby. These standby units remain idle until an active unit fails, at which point a standby unit takes over, handling traffic from only one failed active unit. This setup allows for the configuration of multiple standby units to provide resilience against several concurrent failures. In A/A redundancy, the combination of this command and the **failed-mda-limit** command guides the distribution of resources among ESA-VMs or ISAs, essentially defining how the members are structured. In both A/S and A/A modes, the system strives to maintain the configured number of active members as outlined by the active MDA limit, drawing from the pool of available spare resources to compensate for any failures. If the actual number of active members drops below this limit because of a lack of available spares, the NAT group status changes to degraded. In this state, traffic intended for the missing ESA-VM or ISA members (up to the active MDA limit) is blackholed. In Layer 2-aware NAT this condition can be circumvented where traffic can bypass NAT altogether and be directly routed within the internal network that may have an alternate path to a backup NAT system.
Range	1 to 28
Introduced	25.3.R2
Platforms	SAR Gen 2

intra-chassis

Synopsis	Enter the **intra-chassis** context

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Context	**configure** isa nat-group *number* redundancy intra-chassis
Tree	intra-chassis
Notes	The following elements are part of a choice: **inter-chassis** or **intra-chassis**.
Introduced	25.3.R2
Platforms	SAR Gen 2

active-standby

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Active-standby intra-chassis NAT redundancy model
Context	**configure** isa nat-group *number* redundancy intra-chassis active-standby
Tree	active-standby
Notes	The following elements are part of a choice: **active-active**, **active-standby**, or **l2aware-bypass**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group [id] *number*

Synopsis	Enter the **tunnel-group** list instance
Context	**configure** isa tunnel-group *number*
Tree	tunnel-group
Description	Commands in this context create or edit a tunnel group. A tunnel group is a set of one or more MS-ISAs that support the origination and termination of IPsec and IP/GRE tunnels.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Tunnel group ID
Context	**configure** isa tunnel-group *number*

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Tree	tunnel-group
Range	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the ISA tunnel group
Context	**configure** isa tunnel-group *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup *slot-mda*

Synopsis	IPsec module configured in the slot to the IPsec group
Context	**configure** isa tunnel-group *number* backup *slot-mda*
Tree	backup
Notes	The following elements are part of a choice: **multi-active** or (**backup** and **primary**).
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** isa tunnel-group *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-responder-only *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Act as an IKE responder except upon MC-IPsec switchover
Context	**configure** isa tunnel-group *number* ipsec-responder-only *boolean*
Tree	ipsec-responder-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

isa-scale-mode *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tunnel limit on each ISA for the tunnel group
Context	**configure** isa tunnel-group *number* isa-scale-mode *keyword*
Tree	isa-scale-mode
Options	tunnel-limit-2k, tunnel-limit-32k, tunnel-limit-64k, tunnel-limit-8, tunnel-limit-32, tunnel-limit-4k
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-active

Synopsis	Enable the **multi-active** context
Context	**configure** isa tunnel-group *number* multi-active
Tree	multi-active
Notes	The following elements are part of a choice: **multi-active** or (**backup** and **primary**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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active-isa-number *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of active MS-ISAs in the tunnel group
Context	**configure** isa tunnel-group *number* multi-active active-isa-number *number*
Tree	active-isa-number
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

isa [isa-id] *slot-mda*

Synopsis	Add a list entry for **isa**
Context	**configure** isa tunnel-group *number* multi-active isa *slot-mda*
Tree	isa
Notes	The following elements are part of a choice: **esa**, **isa**, or **member-pool**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**isa-id**] *slot-mda*

Synopsis	ISA ID associated with the tunnel member pool
Context	**configure** isa tunnel-group *number* multi-active isa *slot-mda*
Tree	isa
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

member-pool *reference*

Synopsis	Tunnel-member pool name
Context	**configure** isa tunnel-group *number* multi-active member-pool *reference*

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Tree	member-pool
Reference	**configure** isa tunnel-member-pool *named-item*
Notes	The following elements are part of a choice: **esa**, **isa**, or **member-pool**.
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *slot-mda*

Synopsis	Primary ISA IPsec module assigned for the tunnel group
Context	**configure** isa tunnel-group *number* primary *slot-mda*
Tree	primary
Notes	The following elements are part of a choice: **multi-active** or (**backup** and **primary**).
Introduced	25.3.R2
Platforms	SAR Gen 2

reassembly

Synopsis	Enter the **reassembly** context
Context	**configure** isa tunnel-group *number* reassembly
Tree	reassembly
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait-time *number*

Synopsis	Maximum time to receive fragments for packet reassembly
Context	**configure** isa tunnel-group *number* reassembly max-wait-time *number*
Tree	max-wait-time
Range	1 to 5000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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stats-collection

Synopsis	Enter the **stats-collection** context
Context	**configure** isa tunnel-group *number* stats-collection
Tree	stats-collection
Description	Commands in this context configure the ISA statistics collection.
Introduced	25.3.R2
Platforms	SAR Gen 2

isa-dp-cpu-usage *boolean*

Synopsis	Collect statistics used to derive ISA DP CPU usage
Context	**configure** isa tunnel-group *number* stats-collection isa-dp-cpu-usage *boolean*
Tree	isa-dp-cpu-usage
Description	When configured to **true**, this command collects statistics used to derive ISA CPU DP usage and impacts the ISA performance. When configured to **false**, statistics are not collected.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-member-pool [name] *named-item*

Synopsis	Enter the **tunnel-member-pool** list instance
Context	**configure** isa tunnel-member-pool *named-item*
Tree	tunnel-member-pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	ISA tunnel-member pool name
Context	**configure** isa tunnel-member-pool *named-item*
Tree	tunnel-member-pool
String length	1 to 32

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String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** isa tunnel-member-pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

isa [isa-id] *slot-mda*

Synopsis	Add a list entry for **isa**
Context	**configure** isa tunnel-member-pool *named-item* isa *slot-mda*
Tree	isa
Max. instances	16
Notes	The following elements are part of a choice: **esa** or **isa**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**isa-id**] *slot-mda*

Synopsis	ISA ID associated with the tunnel member pool
Context	**configure** isa tunnel-member-pool *named-item* isa *slot-mda*
Tree	isa
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.13 lag commands

```
configure
   - lag lag-interface
      - access
         - adapt-qos
            - include-egr-hash-cfg boolean
            - mode keyword
         - bandwidth number
         - booking-factor number
      - admin-state keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - bandwidth-threshold
         - action keyword
         - cost number
         - value number
      - description very-long-description
      - dynamic-cost boolean
      - encap-type keyword
      - hash-weight-threshold
         - action keyword
         - cost number
         - value number
      - hold-time-down number
      - lacp
         - administrative-key number
         - fallback
            - mode keyword
            - timeout number
         - mode keyword
         - system-id mac-address
         - system-priority number
      - lacp-mux-control keyword
      - lacp-xmit-interval keyword
      - lacp-xmit-stdby boolean
      - lldp-member-template
         - dest-mac keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - notification boolean
            - port-id-subtype keyword
            - receive boolean
            - transmit boolean
            - tunnel-nearest-bridge boolean
            - tunnel-nearest-customer boolean
            - tunnel-nearest-non-tpmr boolean
            - tx-mgmt-address keyword
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
            - tx-tlvs
               - port-desc boolean
               - sys-cap boolean
               - sys-desc boolean
               - sys-name boolean
      - mac-address mac-address
      - max-ports number
      - mode keyword
      - monitor-oper-group reference
      - port reference
```


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configure lag port apply-groups

```
        - apply-groups reference
        - apply-groups-exclude reference
        - hash-weight (number | keyword)
        - priority number
        - sub-group (number | keyword)
    - port-threshold
        - action keyword
        - cost number
        - value number
    - port-type keyword
    - ptp-timestamping
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - ipv4-address ipv4-address
        - ipv6-address ipv6-address
    - selection-criteria
        - mode keyword
        - slave-to-partner boolean
        - subgroup-hold-time (number | keyword)
    - standby-signaling keyword
```


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4.13.1 lag command descriptions

lag [lag-name] *lag-interface*

Synopsis	Enter the **lag** list instance
Context	**configure** lag *lag-interface*
Tree	lag
Description	Commands in this context configure the Link Aggregation Group (LAG) attributes.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *lag-interface*

Synopsis	LAG name
Context	**configure** lag *lag-interface*
Tree	lag
Description	This command configures a LAG name or ID. The LAG name or ID must start with "lag-" followed by the lag name or ID, for example, lag-*newyork-to-boston* or lag-*700*.
String length	1 to 27
String format	'lag-interface' must be lag- followed by number 1-800 or up to 23 chars (e.g. lag-1 or lag-my-lag)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

access

Synopsis	Enter the **access** context
Context	**configure** lag *lag-interface* access
Tree	access
Introduced	25.3.R2
Platforms	SAR Gen 2

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adapt-qos

Synopsis	Enter the **adapt-qos** context
Context	**configure** lag *lag-interface* access adapt-qos
Tree	adapt-qos
Introduced	25.3.R2
Platforms	SAR Gen 2

include-egr-hash-cfg *boolean*

Synopsis	Factor egress hashing into buffer and rate distribution
Context	**configure** lag *lag-interface* access adapt-qos include-egr-hash-cfg *boolean*
Tree	include-egr-hash-cfg
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	QoS adaptation mode
Context	**configure** lag *lag-interface* access adapt-qos mode *keyword*
Tree	mode
Options	link, distribute, port-fair
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	Administrative bandwidth applied to this LAG
Context	**configure** lag *lag-interface* access bandwidth *number*
Tree	bandwidth
Range	1 to 6400000000
Units	bps
Introduced	25.3.R2
Platforms	SAR Gen 2

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booking-factor *number*

Synopsis	Booking factor against the administrative bandwidth
Context	**configure** lag *lag-interface* access booking-factor *number*
Tree	booking-factor
Range	1 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LAG
Context	**configure** lag *lag-interface* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth-threshold

Synopsis	Enter the **bandwidth-threshold** context
Context	**configure** lag *lag-interface* bandwidth-threshold
Tree	bandwidth-threshold
Description	Commands in this context configure the behavior for the LAG when the number of operational links changes so that the usable bandwidth of the LAG is equal to or below the bandwidth-threshold level.
Introduced	26.7.R1
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action to be taken when LAG operational state changes
Context	**configure** lag *lag-interface* bandwidth-threshold action *keyword*

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Tree	action
Description	This command specifies the action that the system takes if the usable bandwidth of the LAG is at or below the threshold value.
Options	down – Specifies the LAG is brought down at threshold dynamic-cost – Specifies dynamic costing is activated static-cost – Specifies static costing is activated
Default	down
Introduced	26.7.R1
Platforms	SAR Gen 2

cost *number*

Synopsis	Static cost of the LAG
Context	**configure** lag *lag-interface* bandwidth-threshold cost *number*
Tree	cost
Description	This command specifies the decimal integer static cost of the LAG.
Range	1 to 16777215
Introduced	26.7.R1
Platforms	SAR Gen 2

value *number*

Synopsis	Integer bandwidth threshold value
Context	**configure** lag *lag-interface* bandwidth-threshold value *number*
Tree	value
Description	This command specifies the bandwidth threshold as a percentage of the total bandwidth for the LAG. When the usable bandwidth is equal to or below the threshold, the system invokes the configured action. If the usable bandwidth exceeds the bandwidth threshold, any action taken for being below the threshold value ceases.
Range	1 to 100
Introduced	26.7.R1
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description

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Context	**configure** lag *lag-interface* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-cost *boolean*

Synopsis	Allow LAG costing using operational aggregate bandwidth
Context	**configure** lag *lag-interface* dynamic-cost *boolean*
Tree	dynamic-cost
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

encap-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Encapsulation type
Context	**configure** lag *lag-interface* encap-type *keyword*
Tree	encap-type
Options	null, dot1q, qinq
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-weight-threshold

Synopsis	Enter the **hash-weight-threshold** context
Context	**configure** lag *lag-interface* hash-weight-threshold

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Tree	hash-weight-threshold
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action when the sum of the hash weight is not exceeded
Context	**configure** lag *lag-interface* hash-weight-threshold action *keyword*
Tree	action
Options	down, dynamic-cost, static-cost
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

cost *number*

Synopsis	Static cost of the LAG
Context	**configure** lag *lag-interface* hash-weight-threshold cost *number*
Tree	cost
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Sum of the hash weight values of all active LAG ports
Context	**configure** lag *lag-interface* hash-weight-threshold value *number*
Tree	value
Range	1 to 6400000
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time-down *number*

Synopsis	Delay time for reporting the LAG is down

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Context	**configure** lag *lag-interface* hold-time-down *number*
Tree	hold-time-down
Range	1 to 2000
Units	deciseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp

Synopsis	Enable the **lacp** context
Context	**configure** lag *lag-interface* lacp
Tree	lacp
Introduced	25.3.R2
Platforms	SAR Gen 2

administrative-key *number*

Synopsis	Key to identify the channel group on each LACP port
Context	**configure** lag *lag-interface* lacp administrative-key *number*
Tree	administrative-key
Description	This command configures the administrative key that identifies the channel group on each port configured to use LACP. In an MC-LAG configuration, both redundant nodes must be configured with the same key values. In any other case, the key is only locally significant.
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

fallback

Synopsis	Enable the **fallback** context
Context	**configure** lag *lag-interface* lacp fallback
Tree	fallback
Description	Commands in this context enable LACP fallback. LACP fallback allows one or more designated links of an LACP-controlled LAG to go into forwarding mode if LACP is not

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	yet operational after a configured timeout period. Links capable of forwarding traffic assume the Ethernet and IP characteristics configured for the LAG.
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	LACP fallback mode
Context	**configure** lag *lag-interface* lacp fallback mode *keyword*
Tree	mode
Description	This command configures the LACP fallback mode. The **static** mode enables a single member to forward traffic during fallback.
Options	static
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	LACP fallback timeout interval
Context	**configure** lag *lag-interface* lacp fallback timeout *number*
Tree	timeout
Description	This command configures the duration after which a link becomes active if no LACP PDUs are received within this timeout period. **Note:** The user must first configure this command to a timeout interval of 90 before the **configure lag lacp-xmit-interval** command can change from **fast** to **slow**.
Range	4 to 3600
Units	seconds
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Mode in which LACP operates
Context	**configure** lag *lag-interface* lacp mode *keyword*

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Tree	mode
Options	passive, active
Default	passive
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id *mac-address*

Synopsis	System ID
Context	**configure** lag *lag-interface* lacp system-id *mac-address*
Tree	system-id
Default	00:00:00:00:00:00
Introduced	25.3.R2
Platforms	SAR Gen 2

system-priority *number*

Synopsis	System priority value
Context	**configure** lag *lag-interface* lacp system-priority *number*
Tree	system-priority
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp-mux-control *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MUX machine control for LACP LAG in active/passive mode
Context	**configure** lag *lag-interface* lacp-mux-control *keyword*
Tree	lacp-mux-control
Options	coupled, independent
Default	coupled

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Introduced	25.3.R2
Platforms	SAR Gen 2

lacp-xmit-interval *keyword*

Synopsis	Time for periodic transmission
Context	**configure** lag *lag-interface* lacp-xmit-interval *keyword*
Tree	lacp-xmit-interval
Options	slow, fast
Default	fast
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp-xmit-stdby *boolean*

Synopsis	Allow LACP message transmission on standby links
Context	**configure** lag *lag-interface* lacp-xmit-stdby *boolean*
Tree	lacp-xmit-stdby
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

lldp-member-template

Synopsis	Enter the **lldp-member-template** context
Context	**configure** lag *lag-interface* lldp-member-template
Tree	lldp-member-template
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-mac [mac-type] *keyword*

Synopsis	Enter the **dest-mac** list instance
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword*
Tree	dest-mac

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-type**] *keyword*

Synopsis	Destination MAC address type
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword*
Tree	dest-mac
Options	nearest-bridge – Use the nearest bridge nearest-non-tpmr – Use nearest non-Two-Port MAC Relay (TPMR) nearest-customer – Use the nearest customer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

notification *boolean*

Synopsis	Enable LLDP notifications
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* notification *boolean*
Tree	notification
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id-subtype *keyword*

Synopsis	Encoding of the Port ID TLV transmitted to the peer
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* port-id-subtype *keyword*
Tree	port-id-subtype
Description	This command configures how to encode the Port ID TLV transmitted to the peer. The default setting **tx-local** (ifindex value) is required by some versions of the NSP NSM-P to properly build the Layer 2 topology map using LLDP. Changing this value to transmit the ifName (**tx-if-name**) or ifAlias (**tx-if-alias**) in place of the ifIndex (**tx-local**) may affect the ability of the NSP NFM-P to build the Layer 2 topology map using LLDP.
Options	tx-if-alias – Transmit the ifAlias String (subtype 1) tx-if-name – Transmit the ifName string (subtype 5)

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	tx-local – Transmit the interface ifIndex value (subtype 7)
Default	tx-local
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Enable LLDP received frame handling
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* receive *boolean*
Tree	receive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit *boolean*

Synopsis	Enable LLDP transmitted frame handling
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* transmit *boolean*
Tree	transmit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-nearest-bridge *boolean*

Synopsis	Enable nearest bridge tunneling
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tunnel-nearest-bridge *boolean*
Tree	tunnel-nearest-bridge
Description	When configured to **true**, this command enables nearest bridge tunneling. This command allows LLDP packets received on the port with the destination address of the nearest bridge to be tunneled without being intercepted on the local port. The **dest-mac mac-type nearest-bridge** must be disabled for tunneling to occur. This is applicable to NULL SAP Epipe and VPLS services only. When configured to **false**, nearest bridge tunneling is disabled.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-nearest-customer *boolean*

Synopsis	Enable nearest customer tunneling
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tunnel-nearest-customer *boolean*
Tree	tunnel-nearest-customer
Description	When configured to **true**, the system allows LLDP packets received on the port with the destination address of the nearest customer to be tunneled without being intercepted on the local port. When configured to **false**, the system disables nearest customer tunneling.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-nearest-non-tpmr *boolean*

Synopsis	Enable the nearest non-TPMR tunneling
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tunnel-nearest-non-tpmr *boolean*
Tree	tunnel-nearest-non-tpmr
Description	When configured to **true**, the system allows LLDP packets received on the port with the destination address of the nearest non-TPMR to be tunneled without being intercepted on the local port. When configured to **false**, the system disables nearest non-TPMR tunneling.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tx-mgmt-address [mgmt-address-system-type] *keyword*

Synopsis	Enter the **tx-mgmt-address** list instance
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-mgmt-address *keyword*
Tree	tx-mgmt-address

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**mgmt-address-system-type**] *keyword*

Synopsis	Management address to transmit
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-mgmt-address *keyword*
Tree	tx-mgmt-address
Description	This command configures the management address to transmit. The user can choose to send the following addresses, or any combination of these: • system IPv4 address • system IPv6 address • out-of-band IPv4 address • out-of-band IPv6 address The system address is sent only once. The address must be configured for the specific version of the protocol to send the management address.
Options	oob – Transmit out-of-band IPv4 address for active CPM system – Transmit the system IP address system-ipv6 – Transmit the system IPv6 address oob-ipv6 – Transmit the out-of-band IPv6 address for active CPM
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of management address transmission
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-mgmt-address *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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tx-tlvs

Synopsis	Enter the **tx-tlvs** context
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-tlvs
Tree	tx-tlvs
Description	Commands in this context configure which LLDP TLVs to transmit. The TX TLVs, defined as a bitmap, include the basic set of LLDP TLVs whose transmission is allowed on the local LLDP agent by network management. Each bit in the bitmap corresponds to a TLV type associated with a specific optional TLV. Organizationally-specific TLVs are excluded from this bitmap. There is no bit reserved for the management address TLV type because transmission of management address TLVs are controlled by another object.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-desc *boolean*

Synopsis	Transmit port description TLVs
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-tlvs port-desc *boolean*
Tree	port-desc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sys-cap *boolean*

Synopsis	Transmit system capabilities TLVs
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-tlvs sys-cap *boolean*
Tree	sys-cap
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sys-desc *boolean*

Synopsis	Transmit system description TLVs
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-tlvs sys-desc *boolean*
Tree	sys-desc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sys-name *boolean*

Synopsis	Transmit system name TLVs
Context	**configure** lag *lag-interface* lldp-member-template dest-mac *keyword* tx-tlvs sys-name *boolean*
Tree	sys-name
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address of the LAG
Context	**configure** lag *lag-interface* mac-address *mac-address*
Tree	mac-address
Default	00:00:00:00:00:00
Introduced	25.3.R2
Platforms	SAR Gen 2

max-ports *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ports allowed in the LAG

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Context	**configure** lag *lag-interface* max-ports *number*
Tree	max-ports
Description	This command configures the maximum number of ports allowed in the LAG. This command must be configured to 64 when the LAG name is a numeric identifier in the range of 1 to 64. If the LAG name is a numeric identifier in the range of 65 to 800, this command must be configured to 32.
Range	32 | 64
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Operation mode of the LAG
Context	**configure** lag *lag-interface* mode *keyword*
Tree	mode
Options	access, network, hybrid
Default	network
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group to monitor
Context	**configure** lag *lag-interface* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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port [port-id] *reference*

Synopsis	Enter the **port** list instance
Context	**configure** lag *lag-interface* port *reference*
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

[**port-id**] *reference*

Synopsis	Identifier to uniquely identify the port in the LAG
Context	**configure** lag *lag-interface* port *reference*
Tree	port
Reference	**configure** port *port*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-weight *(number | keyword)*

Synopsis	Flow hashing distribution between LAG ports
Context	**configure** lag *lag-interface* port *reference* hash-weight *(number | keyword)*
Tree	hash-weight
Range	1 to 100000
Options	port-speed
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the port in the LAG
Context	**configure** lag *lag-interface* port *reference* priority *number*
Tree	priority
Range	1 to 65535
Default	32768

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Introduced	25.3.R2
Platforms	SAR Gen 2

sub-group *(number | keyword)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Subgroup of the port in the LAG
Context	**configure** lag *lag-interface* port *reference* sub-group *(number | keyword)*
Tree	sub-group
Range	1 to 8
Options	auto-iom, auto-mda
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

port-threshold

Synopsis	Enter the **port-threshold** context
Context	**configure** lag *lag-interface* port-threshold
Tree	port-threshold
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action when the active links are at or below threshold
Context	**configure** lag *lag-interface* port-threshold action *keyword*
Tree	action
Options	down, dynamic-cost, static-cost
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

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cost *number*

Synopsis	Static cost of the LAG
Context	**configure** lag *lag-interface* port-threshold cost *number*
Tree	cost
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Active link threshold at which action is taken
Context	**configure** lag *lag-interface* port-threshold value *number*
Tree	value
Range	0 to 63
Introduced	25.3.R2
Platforms	SAR Gen 2

port-type *keyword*

Synopsis	Port type of the LAG
Context	**configure** lag *lag-interface* port-type *keyword*
Tree	port-type
Options	standard, hs
Default	standard
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp-timestamping

Synopsis	Enable the **ptp-timestamping** context
Context	**configure** lag *lag-interface* ptp-timestamping
Tree	ptp-timestamping
Description	Commands in this context configure LAG filtering for the 1588 timestamping of PTP messages to match multiple PTP flows.

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of PTP timestamping
Context	**configure** lag *lag-interface* ptp-timestamping admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipv4-address *ipv4-address*

Synopsis	IPv4 destination address for PTP messages into port
Context	**configure** lag *lag-interface* ptp-timestamping ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipv6-address *ipv6-address*

Synopsis	IPv6 destination address for PTP messages into port
Context	**configure** lag *lag-interface* ptp-timestamping ipv6-address *ipv6-address*
Tree	ipv6-address
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

selection-criteria

Synopsis	Enter the **selection-criteria** context
Context	**configure** lag *lag-interface* selection-criteria

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Tree	selection-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Criteria to select the active subgroup
Context	**configure** lag *lag-interface* selection-criteria mode *keyword*
Tree	mode
Options	highest-count, highest-weight, best-port
Default	highest-count
Introduced	25.3.R2
Platforms	SAR Gen 2

slave-to-partner *boolean*

Synopsis	Use slave-to-partner for selection criteria
Context	**configure** lag *lag-interface* selection-criteria slave-to-partner *boolean*
Tree	slave-to-partner
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

subgroup-hold-time *(number | keyword)*

Synopsis	Delay time when switching to a new active subgroup
Context	**configure** lag *lag-interface* selection-criteria subgroup-hold-time *(number | keyword)*
Tree	subgroup-hold-time
Range	0 to 2000
Units	deciseconds
Options	infinite
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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standby-signaling *keyword*

Synopsis	Way of signaling a member port to the remote side
Context	**configure** lag *lag-interface* standby-signaling *keyword*
Tree	standby-signaling
Options	lacp, power-off
Default	lacp
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.14 log commands

```
configure
   – log
      – accounting-policy number
         – admin-state keyword
         – align boolean
         – apply-groups reference
         – apply-groups-exclude reference
         – collection-interval number
         – custom-record
            – apply-groups reference
            – apply-groups-exclude reference
            – policer number
               – apply-groups reference
               – apply-groups-exclude reference
               – e-counters
                  – exceed-profile-octets-discarded-count boolean
                  – exceed-profile-octets-forwarded-count boolean
                  – exceed-profile-octets-offered-count boolean
                  – exceed-profile-packets-discarded-count boolean
                  – exceed-profile-packets-forwarded-count boolean
                  – exceed-profile-packets-offered-count boolean
                  – in-plus-profile-octets-discarded-count boolean
                  – in-plus-profile-octets-forwarded-count boolean
                  – in-plus-profile-octets-offered-count boolean
                  – in-plus-profile-packets-discarded-count boolean
                  – in-plus-profile-packets-forwarded-count boolean
                  – in-plus-profile-packets-offered-count boolean
                  – in-profile-octets-discarded-count boolean
                  – in-profile-octets-forwarded-count boolean
                  – in-profile-octets-offered-count boolean
                  – in-profile-packets-discarded-count boolean
                  – in-profile-packets-forwarded-count boolean
                  – in-profile-packets-offered-count boolean
                  – out-profile-octets-discarded-count boolean
                  – out-profile-octets-forwarded-count boolean
                  – out-profile-octets-offered-count boolean
                  – out-profile-packets-discarded-count boolean
                  – out-profile-packets-forwarded-count boolean
                  – out-profile-packets-offered-count boolean
                  – uncoloured-octets-offered-count boolean
                  – uncoloured-packets-offered-count boolean
               – i-counters
                  – in-profile-octets-discarded-count boolean
                  – in-profile-octets-forwarded-count boolean
                  – in-profile-octets-offered-count boolean
                  – in-profile-packets-discarded-count boolean
                  – in-profile-packets-forwarded-count boolean
                  – in-profile-packets-offered-count boolean
                  – out-profile-octets-discarded-count boolean
                  – out-profile-octets-forwarded-count boolean
                  – out-profile-octets-offered-count boolean
                  – out-profile-packets-discarded-count boolean
                  – out-profile-packets-forwarded-count boolean
                  – out-profile-packets-offered-count boolean
                  – uncoloured-octets-offered-count boolean
                  – uncoloured-packets-offered-count boolean
            – queue number
               – apply-groups reference
               – apply-groups-exclude reference
```


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```
            - e-counters
               - in-profile-octets-discarded-count boolean
               - in-profile-octets-forwarded-count boolean
               - in-profile-packets-discarded-count boolean
               - in-profile-packets-forwarded-count boolean
               - out-profile-octets-discarded-count boolean
               - out-profile-octets-forwarded-count boolean
               - out-profile-packets-discarded-count boolean
               - out-profile-packets-forwarded-count boolean
            - i-counters
               - all-octets-offered-count boolean
               - all-packets-offered-count boolean
               - high-octets-discarded-count boolean
               - high-octets-offered-count boolean
               - high-packets-discarded-count boolean
               - high-packets-offered-count boolean
               - in-profile-octets-forwarded-count boolean
               - in-profile-packets-forwarded-count boolean
               - low-octets-discarded-count boolean
               - low-octets-offered-count boolean
               - low-packets-discarded-count boolean
               - low-packets-offered-count boolean
               - out-profile-octets-forwarded-count boolean
               - out-profile-packets-forwarded-count boolean
               - uncoloured-octets-offered-count boolean
               - uncoloured-packets-offered-count boolean
         - ref-policer
            - all
            - e-counters
               - exceed-profile-octets-discarded-count boolean
               - exceed-profile-octets-forwarded-count boolean
               - exceed-profile-octets-offered-count boolean
               - exceed-profile-packets-discarded-count boolean
               - exceed-profile-packets-forwarded-count boolean
               - exceed-profile-packets-offered-count boolean
               - in-plus-profile-octets-discarded-count boolean
               - in-plus-profile-octets-forwarded-count boolean
               - in-plus-profile-octets-offered-count boolean
               - in-plus-profile-packets-discarded-count boolean
               - in-plus-profile-packets-forwarded-count boolean
               - in-plus-profile-packets-offered-count boolean
               - in-profile-octets-discarded-count boolean
               - in-profile-octets-forwarded-count boolean
               - in-profile-octets-offered-count boolean
               - in-profile-packets-discarded-count boolean
               - in-profile-packets-forwarded-count boolean
               - in-profile-packets-offered-count boolean
               - out-profile-octets-discarded-count boolean
               - out-profile-octets-forwarded-count boolean
               - out-profile-octets-offered-count boolean
               - out-profile-packets-discarded-count boolean
               - out-profile-packets-forwarded-count boolean
               - out-profile-packets-offered-count boolean
               - uncoloured-octets-offered-count boolean
               - uncoloured-packets-offered-count boolean
            - i-counters
               - in-profile-octets-discarded-count boolean
               - in-profile-octets-forwarded-count boolean
               - in-profile-octets-offered-count boolean
               - in-profile-packets-discarded-count boolean
               - in-profile-packets-forwarded-count boolean
               - in-profile-packets-offered-count boolean
               - out-profile-octets-discarded-count boolean
               - out-profile-octets-forwarded-count boolean
```


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```
                - out-profile-octets-offered-count boolean
                - out-profile-packets-discarded-count boolean
                - out-profile-packets-forwarded-count boolean
                - out-profile-packets-offered-count boolean
                - uncoloured-octets-offered-count boolean
                - uncoloured-packets-offered-count boolean
             - id reference
          - ref-queue
             - all
             - e-counters
                - in-profile-octets-discarded-count boolean
                - in-profile-octets-forwarded-count boolean
                - in-profile-packets-discarded-count boolean
                - in-profile-packets-forwarded-count boolean
                - out-profile-octets-discarded-count boolean
                - out-profile-octets-forwarded-count boolean
                - out-profile-packets-discarded-count boolean
                - out-profile-packets-forwarded-count boolean
             - i-counters
                - all-octets-offered-count boolean
                - all-packets-offered-count boolean
                - high-octets-discarded-count boolean
                - high-octets-offered-count boolean
                - high-packets-discarded-count boolean
                - high-packets-offered-count boolean
                - in-profile-octets-forwarded-count boolean
                - in-profile-packets-forwarded-count boolean
                - low-octets-discarded-count boolean
                - low-octets-offered-count boolean
                - low-packets-discarded-count boolean
                - low-packets-offered-count boolean
                - out-profile-octets-forwarded-count boolean
                - out-profile-packets-forwarded-count boolean
                - uncoloured-octets-offered-count boolean
                - uncoloured-packets-offered-count boolean
             - id reference
          - significant-change number
       - default boolean
       - description description
       - destination
          - file reference
          - null
       - include-system-info boolean
       - record keyword
    - app-route-notifications
       - cold-start-wait number
       - route-recovery-wait number
    - apply-groups reference
    - apply-groups-exclude reference
    - encryption-key encrypted-leaf
    - event-damping boolean
    - event-handling
       - handler named-item
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - description description
          - entry number
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - description description
             - min-delay number
             - script-policy
```


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configure log event-handling handler entry script-policy name

```
                - name reference
                - owner reference
      - event-trigger
         - adp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - auto-prov event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - bfd event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - bgp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - chassis event keyword
```


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```
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - debug event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - dhcp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - dhcps event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - diameter event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
```


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```
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - dot1x event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - dynsvc event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - efm-oam event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - ering event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
```


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configure log event-trigger ering entry debounce

```
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
         - eth-cfm event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - etun event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - filter event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - gsmp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
```


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```
            - filter reference
            - handler reference
         - igmp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - igmp-snooping event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - ip event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - ipsec event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - isis event keyword
            - admin-state keyword
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - lag event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - ldap event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - ldp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - lldp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
```


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```
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - logger event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - macsec event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - mc-redundancy event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - mcpath event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
```


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configure log event-trigger mcpath entry debounce time

```
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - mgmt-core event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - mirror event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - mld event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - mld-snooping event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
```


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```
            - handler reference
      - mpls event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - mpls-tp event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - ntp event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - oam event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - ospf event keyword
         - admin-state keyword
         - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - pcap event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - pcep event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - pfcp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - pim event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - pim-snooping event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - port event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - ptp event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - python event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
```


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configure log event-trigger python entry debounce value

```
                  - value number
               - description description
               - filter reference
               - handler reference
         - radius event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - rip event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - ripng event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - route-policy event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
```


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```
        - rpki event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - debounce
                    - time number
                    - value number
                - description description
                - filter reference
                - handler reference
        - rsvp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - debounce
                    - time number
                    - value number
                - description description
                - filter reference
                - handler reference
        - security event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - debounce
                    - time number
                    - value number
                - description description
                - filter reference
                - handler reference
        - snmp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - debounce
                    - time number
                    - value number
                - description description
                - filter reference
                - handler reference
        - sr-mpls event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
```


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```
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - sr-policy event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - stp event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - svcmgr event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - debounce
                  - time number
                  - value number
               - description description
               - filter reference
               - handler reference
         - system event keyword
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - entry number
               - admin-state keyword
               - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - tls event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - user event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - vrrp event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - vrtr event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
```


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```
            - description description
            - filter reference
            - handler reference
      - wlan-gw event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
      - wpp event keyword
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - entry number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - debounce
               - time number
               - value number
            - description description
            - filter reference
            - handler reference
   - file file-policy-name
      - apply-groups reference
      - apply-groups-exclude reference
      - compact-flash-location
         - backup keyword
         - primary keyword
      - description description
      - retention number
      - rollover number
   - file-storage-control
      - accounting-files-total-size number
      - log-files-total-size number
   - filter log-filter-name
      - apply-groups reference
      - apply-groups-exclude reference
      - default-action keyword
      - description description
      - named-entry log-filter-entry-name
         - action keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - match
            - application
               - eq keyword
               - neq keyword
            - event
               - eq number
               - gt number
               - gte number
               - lt number
```


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configure log filter named-entry match event lte

```
                - lte number
                - neq number
             - message
                - eq string
                - neq string
                - regexp boolean
             - severity
                - eq keyword
                - gt keyword
                - gte keyword
                - lt keyword
                - lte keyword
                - neq keyword
             - subject
                - eq named-item
                - neq named-item
                - regexp boolean
             - vrtr-name
                - eq named-item
                - neq named-item
                - regexp boolean
    - log-events
       - adp event keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - generate boolean
          - repeat boolean
          - severity keyword
          - specific-throttle boolean
          - specific-throttle-interval number
          - specific-throttle-limit number
          - throttle boolean
       - auto-prov event keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - generate boolean
          - repeat boolean
          - severity keyword
          - specific-throttle boolean
          - specific-throttle-interval number
          - specific-throttle-limit number
          - throttle boolean
       - bfd event keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - generate boolean
          - repeat boolean
          - severity keyword
          - specific-throttle boolean
          - specific-throttle-interval number
          - specific-throttle-limit number
          - throttle boolean
       - bgp event keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - generate boolean
          - repeat boolean
          - severity keyword
          - specific-throttle boolean
          - specific-throttle-interval number
          - specific-throttle-limit number
          - throttle boolean
       - chassis event keyword
          - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - debug event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - dhcp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - dhcps event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - diameter event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - dot1x event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - dynsvc event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
```


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```
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - efm-oam event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - ering event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - eth-cfm event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - etun event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - filter event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - gsmp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
```


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```
        - igmp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - igmp-snooping event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - ip event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - ipsec event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - isis event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - lag event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - ldap event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
```


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```
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - ldp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - lldp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - logger event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - macsec event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mc-redundancy event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mcpath event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
```


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```
            - specific-throttle-limit number
            - throttle boolean
         - mgmt-core event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mirror event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mld event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mld-snooping event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mpls event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - mpls-tp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - nat event keyword
            - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - ntp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - oam event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - ospf event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - pcap event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - pcep event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - pfcp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
```


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```
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - pim event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - pim-snooping event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - port event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - ptp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - python event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - radius event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
```


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```
        - rip event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - ripng event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - route-policy event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - rpki event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - rsvp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - security event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
        - snmp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
```


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```
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - sr-mpls event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - sr-policy event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - stp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - svcmgr event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - system event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - tls event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
```


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```
            - specific-throttle-limit number
            - throttle boolean
         - user event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - vrrp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - vrtr event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - wlan-gw event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
         - wpp event keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - generate boolean
            - repeat boolean
            - severity keyword
            - specific-throttle boolean
            - specific-throttle-interval number
            - specific-throttle-limit number
            - throttle boolean
      - log-id log-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - destination
            - cli
               - max-entries number
            - console
            - file reference
            - memory
               - max-entries number
```


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configure log log-id destination netconf

```
            - netconf
               - max-entries number
            - snmp
               - max-entries number
            - syslog reference
         - filter reference
         - netconf-stream named-item
         - source
            - change boolean
            - debug boolean
            - main boolean
            - security boolean
         - time-format keyword
      - route-preference
         - primary keyword
         - secondary keyword
      - services-all-events
         - service reference
      - snmp-trap-group snmp-trap-group-name
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - trap-target string
            - address (ipv4-address-no-zone | ipv6-address-no-zone)
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - notify-community string
            - port number
            - replay boolean
            - security-level keyword
            - version keyword
      - syslog log-syslog-name
         - address (ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - facility keyword
         - hostname
            - use-system-name
            - value named-item-255
         - log-prefix (keyword | string)
         - port number
         - severity keyword
         - timestamp-format keyword
         - tls-client-profile reference
      - throttle-rate
         - interval number
         - limit number
```


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4.14.1 log command descriptions

log

Synopsis	Enter the **log** context
Context	**configure** log
Tree	log
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy [policy-id] *number*

Synopsis	Enter the **accounting-policy** list instance
Context	**configure** log accounting-policy *number*
Tree	accounting-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-id**] *number*

Synopsis	Accounting policy unique ID
Context	**configure** log accounting-policy *number*
Tree	accounting-policy
Range	1 to 99
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the accounting policy
Context	**configure** log accounting-policy *number* admin-state *keyword*
Tree	admin-state
Description	This command controls the administrative state of the accounting policy.

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When an accounting policy is disabled, no accounting data is written to the destination log ID. Counters in the billing data reflect totals, and not increments. When the policy is re-enabled, the counters include the data collected during the period the policy was administratively disabled.

Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

align *boolean*

Synopsis	Align statistics collection interval to absolute time
Context	**configure** log accounting-policy *number* align *boolean*
Tree	align
Description	When the **align** command is configured to **true**, statistics collection is aligned to the nearest interval within an hour. Statistics are generated when the absolute time can be divided by the collection-interval value, after which the collection interval continues. For example, if the interval is set to 15 minutes and the current time is 15:03, the statistics are collected at 15:15, 15:30, 15:45, 16:00, 16:15, and so on. This supports synchronized statistics intervals and collection across multiple nodes in the network. When the **align** command is configured to **false**, statistics collection occurs immediately after the configuration has been committed. For example, if the interval is set to 15 minutes and the current time is 15:03, the statistics are collected at 15:03, 15:18, 15:33, 15:48, 16:03, and so on.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

collection-interval *number*

Synopsis	Accounting collection interval
Context	**configure** log accounting-policy *number* collection-interval *number*
Tree	collection-interval
Range	1 to 120
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

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custom-record

Synopsis	Enter the **custom-record** context
Context	**configure** log accounting-policy *number* custom-record
Tree	custom-record
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [id] *number*

Synopsis	Enter the **policer** list instance
Context	**configure** log accounting-policy *number* custom-record policer *number*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Policer ID
Context	**configure** log accounting-policy *number* custom-record policer *number*
Tree	policer
Range	1 to 63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

e-counters

Synopsis	Enter the **e-counters** context
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters
Tree	e-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

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exceed-profile-octets-discarded-count *boolean*

Synopsis	Include the exceed profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters exceed-profile-octets-discarded-count *boolean*
Tree	exceed-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-octets-forwarded-count *boolean*

Synopsis	Include the exceed profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters exceed-profile-octets-forwarded-count *boolean*
Tree	exceed-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-octets-offered-count *boolean*

Synopsis	Include the exceed profile octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters exceed-profile-octets-offered-count *boolean*
Tree	exceed-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-packets-discarded-count *boolean*

Synopsis	Include the exceed profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters exceed-profile-packets-discarded-count *boolean*
Tree	exceed-profile-packets-discarded-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-packets-forwarded-count *boolean*

Synopsis	Include the exceed profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters exceed-profile-packets-forwarded-count *boolean*
Tree	exceed-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-packets-offered-count *boolean*

Synopsis	Include the exceed profile packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters exceed-profile-packets-offered-count *boolean*
Tree	exceed-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-octets-discarded-count *boolean*

Synopsis	Include the in-plus profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-plus-profile-octets-discarded-count *boolean*
Tree	in-plus-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-plus-profile-octets-forwarded-count *boolean*

Synopsis	Include the in-plus profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-plus-profile-octets-forwarded-count *boolean*
Tree	in-plus-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-octets-offered-count *boolean*

Synopsis	Include the in-plus profile octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-plus-profile-octets-offered-count *boolean*
Tree	in-plus-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-packets-discarded-count *boolean*

Synopsis	Include the in-plus profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-plus-profile-packets-discarded-count *boolean*
Tree	in-plus-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-packets-forwarded-count *boolean*

Synopsis	Include the in-plus profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-plus-profile-packets-forwarded-count *boolean*
Tree	in-plus-profile-packets-forwarded-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-packets-offered-count *boolean*

Synopsis	Include the in-plus profile packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-plus-profile-packets-offered-count *boolean*
Tree	in-plus-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-discarded-count *boolean*

Synopsis	Include the in profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-profile-octets-discarded-count *boolean*
Tree	in-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-profile-octets-offered-count *boolean*

Synopsis	Include the in profile octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-profile-octets-offered-count *boolean*
Tree	in-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-discarded-count *boolean*

Synopsis	Include the in profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-profile-packets-discarded-count *boolean*
Tree	in-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-offered-count *boolean*

Synopsis	Include the in profile packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters in-profile-packets-offered-count *boolean*
Tree	in-profile-packets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-discarded-count *boolean*

Synopsis	Include the out profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters out-profile-octets-discarded-count *boolean*
Tree	out-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-offered-count *boolean*

Synopsis	Include the out profile octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters out-profile-octets-offered-count *boolean*
Tree	out-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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out-profile-packets-discarded-count *boolean*

Synopsis	Include the out profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters out-profile-packets-discarded-count *boolean*
Tree	out-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-offered-count *boolean*

Synopsis	Include the out profile packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters out-profile-packets-offered-count *boolean*
Tree	out-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-octets-offered-count *boolean*

Synopsis	Include the uncolored octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters uncoloured-octets-offered-count *boolean*
Tree	uncoloured-octets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-packets-offered-count *boolean*

Synopsis	Include the uncolored packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* e-counters uncoloured-packets-offered-count *boolean*
Tree	uncoloured-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

i-counters

Synopsis	Enter the **i-counters** context
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters
Tree	i-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-discarded-count *boolean*

Synopsis	Include the in profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters in-profile-octets-discarded-count *boolean*
Tree	in-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in profile octets forwarded count

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Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-offered-count *boolean*

Synopsis	Include the in profile octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters in-profile-octets-offered-count *boolean*
Tree	in-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-discarded-count *boolean*

Synopsis	Include the in profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters in-profile-packets-discarded-count *boolean*
Tree	in-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-profile-packets-offered-count *boolean*

Synopsis	Include the in profile packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters in-profile-packets-offered-count *boolean*
Tree	in-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-discarded-count *boolean*

Synopsis	Include the out profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters out-profile-octets-discarded-count *boolean*
Tree	out-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-offered-count *boolean*

Synopsis	Include the out profile octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters out-profile-octets-offered-count *boolean*
Tree	out-profile-octets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-discarded-count *boolean*

Synopsis	Include the out profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters out-profile-packets-discarded-count *boolean*
Tree	out-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-offered-count *boolean*

Synopsis	Include the out profile packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters out-profile-packets-offered-count *boolean*
Tree	out-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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uncoloured-octets-offered-count *boolean*

Synopsis	Include the uncolored octets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters uncoloured-octets-offered-count *boolean*
Tree	uncoloured-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-packets-offered-count *boolean*

Synopsis	Include the uncolored packets offered count
Context	**configure** log accounting-policy *number* custom-record policer *number* i-counters uncoloured-packets-offered-count *boolean*
Tree	uncoloured-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [id] *number*

Synopsis	Enter the **queue** list instance
Context	**configure** log accounting-policy *number* custom-record queue *number*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Queue ID for which counters are collected in the record
Context	**configure** log accounting-policy *number* custom-record queue *number*
Tree	queue
Range	1 to 32
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

e-counters

Synopsis	Enter the **e-counters** context
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters
Tree	e-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-discarded-count *boolean*

Synopsis	Include the in-profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters in-profile-octets-discarded-count *boolean*
Tree	in-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-discarded-count *boolean*

Synopsis	Include the in-profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters in-profile-packets-discarded-count *boolean*

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Tree	in-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-discarded-count *boolean*

Synopsis	Include the out-profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters out-profile-octets-discarded-count *boolean*
Tree	out-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out-of-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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out-profile-packets-discarded-count *boolean*

Synopsis	Include the out-profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters out-profile-packets-discarded-count *boolean*
Tree	out-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out-of-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* e-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

i-counters

Synopsis	Enter the **i-counters** context
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters
Tree	i-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

all-octets-offered-count *boolean*

Synopsis	Include the all octets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters all-octets-offered-count *boolean*
Tree	all-octets-offered-count
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

all-packets-offered-count *boolean*

Synopsis	Include all packets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters all-packets-offered-count *boolean*
Tree	all-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-octets-discarded-count *boolean*

Synopsis	Include the high octets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters high-octets-discarded-count *boolean*
Tree	high-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-octets-offered-count *boolean*

Synopsis	Include the high octets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters high-octets-offered-count *boolean*
Tree	high-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-packets-discarded-count *boolean*

Synopsis	Include the high packets discarded count

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Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters high-packets-discarded-count *boolean*
Tree	high-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-packets-offered-count *boolean*

Synopsis	Include the high packets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters high-packets-offered-count *boolean*
Tree	high-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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low-octets-discarded-count *boolean*

Synopsis	Include the low octets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters low-octets-discarded-count *boolean*
Tree	low-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-octets-offered-count *boolean*

Synopsis	Include the low octets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters low-octets-offered-count *boolean*
Tree	low-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-packets-discarded-count *boolean*

Synopsis	Include the low packets discarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters low-packets-discarded-count *boolean*
Tree	low-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-packets-offered-count *boolean*

Synopsis	Include the low packets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters low-packets-offered-count *boolean*
Tree	low-packets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out-of-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out-of-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-octets-offered-count *boolean*

Synopsis	Include the uncolored octets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters uncoloured-octets-offered-count *boolean*
Tree	uncoloured-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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uncoloured-packets-offered-count *boolean*

Synopsis	Include the uncolored packets offered count
Context	**configure** log accounting-policy *number* custom-record queue *number* i-counters uncoloured-packets-offered-count *boolean*
Tree	uncoloured-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ref-policer

Synopsis	Enter the **ref-policer** context
Context	**configure** log accounting-policy *number* custom-record ref-policer
Tree	ref-policer
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Apply significant change to counters for all policers
Context	**configure** log accounting-policy *number* custom-record ref-policer all
Tree	all
Notes	The following elements are part of a choice: **all** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

e-counters

Synopsis	Enter the **e-counters** context
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters
Tree	e-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

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exceed-profile-octets-discarded-count *boolean*

Synopsis	Include the exceed profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters exceed-profile-octets-discarded-count *boolean*
Tree	exceed-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-octets-forwarded-count *boolean*

Synopsis	Include the exceed profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters exceed-profile-octets-forwarded-count *boolean*
Tree	exceed-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-octets-offered-count *boolean*

Synopsis	Include the exceed profile octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters exceed-profile-octets-offered-count *boolean*
Tree	exceed-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-packets-discarded-count *boolean*

Synopsis	Include the exceed profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters exceed-profile-packets-discarded-count *boolean*
Tree	exceed-profile-packets-discarded-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-packets-forwarded-count *boolean*

Synopsis	Include the exceed profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters exceed-profile-packets-forwarded-count *boolean*
Tree	exceed-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile-packets-offered-count *boolean*

Synopsis	Include the exceed profile packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters exceed-profile-packets-offered-count *boolean*
Tree	exceed-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-octets-discarded-count *boolean*

Synopsis	Include the in-plus profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-plus-profile-octets-discarded-count *boolean*
Tree	in-plus-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-plus-profile-octets-forwarded-count *boolean*

Synopsis	Include the in-plus profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-plus-profile-octets-forwarded-count *boolean*
Tree	in-plus-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-octets-offered-count *boolean*

Synopsis	Include the in-plus profile octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-plus-profile-octets-offered-count *boolean*
Tree	in-plus-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-packets-discarded-count *boolean*

Synopsis	Include the in-plus profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-plus-profile-packets-discarded-count *boolean*
Tree	in-plus-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-packets-forwarded-count *boolean*

Synopsis	Include the in-plus profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-plus-profile-packets-forwarded-count *boolean*
Tree	in-plus-profile-packets-forwarded-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-plus-profile-packets-offered-count *boolean*

Synopsis	Include the in-plus profile packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-plus-profile-packets-offered-count *boolean*
Tree	in-plus-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-discarded-count *boolean*

Synopsis	Include the in profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-profile-octets-discarded-count *boolean*
Tree	in-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-profile-octets-offered-count *boolean*

Synopsis	Include the in profile octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-profile-octets-offered-count *boolean*
Tree	in-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-discarded-count *boolean*

Synopsis	Include the in profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-profile-packets-discarded-count *boolean*
Tree	in-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-offered-count *boolean*

Synopsis	Include the in profile packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters in-profile-packets-offered-count *boolean*
Tree	in-profile-packets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-discarded-count *boolean*

Synopsis	Include the out profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters out-profile-octets-discarded-count *boolean*
Tree	out-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-offered-count *boolean*

Synopsis	Include the out profile octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters out-profile-octets-offered-count *boolean*
Tree	out-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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out-profile-packets-discarded-count *boolean*

Synopsis	Include the out profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters out-profile-packets-discarded-count *boolean*
Tree	out-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-offered-count *boolean*

Synopsis	Include the out profile packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters out-profile-packets-offered-count *boolean*
Tree	out-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-octets-offered-count *boolean*

Synopsis	Include the uncolored octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters uncoloured-octets-offered-count *boolean*
Tree	uncoloured-octets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-packets-offered-count *boolean*

Synopsis	Include the uncolored packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer e-counters uncoloured-packets-offered-count *boolean*
Tree	uncoloured-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

i-counters

Synopsis	Enter the **i-counters** context
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters
Tree	i-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-discarded-count *boolean*

Synopsis	Include the in profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters in-profile-octets-discarded-count *boolean*
Tree	in-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in profile octets forwarded count

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Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-offered-count *boolean*

Synopsis	Include the in profile octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters in-profile-octets-offered-count *boolean*
Tree	in-profile-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-discarded-count *boolean*

Synopsis	Include the in profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters in-profile-packets-discarded-count *boolean*
Tree	in-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-profile-packets-offered-count *boolean*

Synopsis	Include the in profile packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters in-profile-packets-offered-count *boolean*
Tree	in-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-discarded-count *boolean*

Synopsis	Include the out profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters out-profile-octets-discarded-count *boolean*
Tree	out-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-offered-count *boolean*

Synopsis	Include the out profile octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters out-profile-octets-offered-count *boolean*
Tree	out-profile-octets-offered-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-discarded-count *boolean*

Synopsis	Include the out profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters out-profile-packets-discarded-count *boolean*
Tree	out-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-offered-count *boolean*

Synopsis	Include the out profile packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters out-profile-packets-offered-count *boolean*
Tree	out-profile-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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uncoloured-octets-offered-count *boolean*

Synopsis	Include the uncolored octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters uncoloured-octets-offered-count *boolean*
Tree	uncoloured-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-packets-offered-count *boolean*

Synopsis	Include the uncolored packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-policer i-counters uncoloured-packets-offered-count *boolean*
Tree	uncoloured-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

Synopsis	Policer ID
Context	**configure** log accounting-policy *number* custom-record ref-policer id *reference*
Tree	id
Reference	**configure** log accounting-policy *number* custom-record policer *number*
Notes	The following elements are part of a choice: **all** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ref-queue

Synopsis	Enter the **ref-queue** context
Context	**configure** log accounting-policy *number* custom-record ref-queue
Tree	ref-queue

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Description	Commands in this context configure reference queue counters for significant change only reporting. The custom record is only generated when the change in the sum of all queue and policer reference counters equals or exceeds the configured (non-zero) significant change value.
Introduced	25.3.R2
Platforms	SAR Gen 2

all

Synopsis	Apply significant change to counters for all queues
Context	**configure** log accounting-policy *number* custom-record ref-queue all
Tree	all
Notes	The following elements are part of a choice: **all** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

e-counters

Synopsis	Enter the **e-counters** context
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters
Tree	e-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-discarded-count *boolean*

Synopsis	Include the in-profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters in-profile-octets-discarded-count *boolean*
Tree	in-profile-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-discarded-count *boolean*

Synopsis	Include the in-profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters in-profile-packets-discarded-count *boolean*
Tree	in-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-discarded-count *boolean*

Synopsis	Include the out-profile octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters out-profile-octets-discarded-count *boolean*
Tree	out-profile-octets-discarded-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out-of-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-discarded-count *boolean*

Synopsis	Include the out-profile packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters out-profile-packets-discarded-count *boolean*
Tree	out-profile-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out-of-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue e-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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i-counters

Synopsis	Enter the **i-counters** context
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters
Tree	i-counters
Introduced	25.3.R2
Platforms	SAR Gen 2

all-octets-offered-count *boolean*

Synopsis	Include the all octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters all-octets-offered-count *boolean*
Tree	all-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

all-packets-offered-count *boolean*

Synopsis	Include all packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters all-packets-offered-count *boolean*
Tree	all-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-octets-discarded-count *boolean*

Synopsis	Include the high octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters high-octets-discarded-count *boolean*
Tree	high-octets-discarded-count
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

high-octets-offered-count *boolean*

Synopsis	Include the high octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters high-octets-offered-count *boolean*
Tree	high-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-packets-discarded-count *boolean*

Synopsis	Include the high packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters high-packets-discarded-count *boolean*
Tree	high-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-packets-offered-count *boolean*

Synopsis	Include the high packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters high-packets-offered-count *boolean*
Tree	high-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-octets-forwarded-count *boolean*

Synopsis	Include the in-profile octets forwarded count

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Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters in-profile-octets-forwarded-count *boolean*
Tree	in-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile-packets-forwarded-count *boolean*

Synopsis	Include the in-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters in-profile-packets-forwarded-count *boolean*
Tree	in-profile-packets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-octets-discarded-count *boolean*

Synopsis	Include the low octets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters low-octets-discarded-count *boolean*
Tree	low-octets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-octets-offered-count *boolean*

Synopsis	Include the low octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters low-octets-offered-count *boolean*
Tree	low-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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low-packets-discarded-count *boolean*

Synopsis	Include the low packets discarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters low-packets-discarded-count *boolean*
Tree	low-packets-discarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-packets-offered-count *boolean*

Synopsis	Include the low packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters low-packets-offered-count *boolean*
Tree	low-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-octets-forwarded-count *boolean*

Synopsis	Include the out-of-profile octets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters out-profile-octets-forwarded-count *boolean*
Tree	out-profile-octets-forwarded-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile-packets-forwarded-count *boolean*

Synopsis	Include the out-of-profile packets forwarded count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters out-profile-packets-forwarded-count *boolean*
Tree	out-profile-packets-forwarded-count

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-octets-offered-count *boolean*

Synopsis	Include the uncolored octets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters uncoloured-octets-offered-count *boolean*
Tree	uncoloured-octets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncoloured-packets-offered-count *boolean*

Synopsis	Include the uncolored packets offered count
Context	**configure** log accounting-policy *number* custom-record ref-queue i-counters uncoloured-packets-offered-count *boolean*
Tree	uncoloured-packets-offered-count
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

Synopsis	Queue ID
Context	**configure** log accounting-policy *number* custom-record ref-queue id *reference*
Tree	id
Reference	**configure** log accounting-policy *number* custom-record queue *number*
Notes	The following elements are part of a choice: **all** or **id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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significant-change *number*

Synopsis	Significant change required to generate the record
Context	**configure** log accounting-policy *number* custom-record significant-change *number*
Tree	significant-change
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

default *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Default accounting policy for all objects that do not have an accounting policy
Context	**configure** log accounting-policy *number* default *boolean*
Tree	default
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log accounting-policy *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination

Synopsis	Enter the **destination** context
Context	**configure** log accounting-policy *number* destination

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Tree	destination
Introduced	25.3.R2
Platforms	SAR Gen 2

file *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Unique file identifier when creating a log or accounting file
Context	**configure** log accounting-policy *number* destination file *reference*
Tree	file
Reference	**configure** log file *file-policy-name*
Notes	The following elements are part of a choice: **file** or **null**.
Introduced	25.3.R2
Platforms	SAR Gen 2

null

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Indicate no destination for accounting policy records
Context	**configure** log accounting-policy *number* destination null
Tree	null
Notes	The following elements are part of a choice: **file** or **null**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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include-system-info *boolean*

Synopsis	Include system information in accounting policy records
Context	**configure** log accounting-policy *number* include-system-info *boolean*
Tree	include-system-info
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

record *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Accounting policy record type
Context	**configure** log accounting-policy *number* record *keyword*
Tree	record
Description	This command adds the accounting record type to the accounting policy that is forwarded to the configured accounting file. A record name can only be used in one accounting policy. To obtain a list of all record types that can be configured, use the **show log accounting-records** command. To configure an accounting policy for access ports, select a service record (for example, service-ingress-octets). To change the record name to another service record, configure the new record name with this command. When configuring an accounting policy for network ports, select a network record. To change the record name to another network record, configure the new record name with this command.
Options	service-ingress-octets, service-egress-octets, service-ingress-packets, service-egress-packets, network-ingress-octets, network-egress-octets, network-ingress-packets, network-egress-packets, compact-service-ingress-octets, combined-service-ingress, combined-network-ing-egr-octets, combined-service-ing-egr-octets, complete-service-ingress-egress, combined-sdp-ingress-egress, complete-sdp-ingress-egress, complete-subscriber-ingress-egress, aa-protocol, aa-application, aa-app-group, aa-subscriber-protocol, aa-subscriber-application, custom-record-subscriber, custom-record-service, custom-record-aa-sub, queue-group-octets, queue-group-packets, combined-queue-group, combined-mpls-lsp-ingress,

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combined-mpls-lsp-egress, combined-ldp-lsp-egress, saa, video, aa-performance, complete-ethernet-port, extended-service-ingress-egress, complete-network-ing-egr, aa-partition, complete-pm, aa-admit-deny, network-interface-ingress-octets, network-interface-egress-octets, network-interface-ingress-packets, network-interface-egress-packets, combined-network-interface-ingress, combined-network-interface-egress, complete-network-interface-ing-egr, access-egress-octets, access-egress-packets, combined-access-egress, combined-network-egress, complete-service-activation-test, combined-mpls-srte-egress, combined-sr-policy-egress

Introduced	25.3.R2
Platforms	SAR Gen 2

app-route-notifications

Synopsis	Enter the **app-route-notifications** context
Context	**configure** log app-route-notifications
Tree	app-route-notifications
Introduced	25.3.R2
Platforms	SAR Gen 2

cold-start-wait *number*

Synopsis	Time delay before notifying specific CPM applications for available route
Context	**configure** log app-route-notifications cold-start-wait *number*
Tree	cold-start-wait
Range	1 to 300
Introduced	25.3.R2
Platforms	SAR Gen 2

route-recovery-wait *number*

Synopsis	Time delay before notifying specific CPM applications after route recovery or change
Context	**configure** log app-route-notifications route-recovery-wait *number*
Tree	route-recovery-wait
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

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encryption-key *encrypted-leaf*

Synopsis	Secret key for the encryption of log files
Context	**configure** log encryption-key *encrypted-leaf*
Tree	encryption-key
Description	This command specifies the encryption key used by AES-256-CTR for log file encryption. The encryption key is used for all local log files on the system. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 126
Introduced	25.3.R2
Platforms	SAR Gen 2

event-damping *boolean*

Synopsis	Allow event damping algorithm to suppress QoS or filter change events
Context	**configure** log event-damping *boolean*
Tree	event-damping
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

event-handling

Synopsis	Enter the **event-handling** context
Context	**configure** log event-handling
Tree	event-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

handler [name] *named-item*

Synopsis	Enter the **handler** list instance
Context	**configure** log event-handling handler *named-item*
Tree	handler

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Max. instances	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	EHS handler name
Context	**configure** log event-handling handler *named-item*
Tree	handler
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS handler
Context	**configure** log event-handling handler *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-handling handler *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-handling handler *named-item* entry *number*
Tree	entry
Max. instances	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	EHS handler entry ID
Context	**configure** log event-handling handler *named-item* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS handler entry
Context	**configure** log event-handling handler *named-item* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-handling handler *named-item* entry *number* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

min-delay *number*

Synopsis	Minimum delay between subsequent executions of the script policy
Context	**configure** log event-handling handler *named-item* entry *number* min-delay *number*
Tree	min-delay
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

script-policy

Synopsis	Enable the **script-policy** context
Context	**configure** log event-handling handler *named-item* entry *number* script-policy
Tree	script-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Script policy name
Context	**configure** log event-handling handler *named-item* entry *number* script-policy name *reference*
Tree	name
Reference	**configure** system script-control script-policy *named-item* owner *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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owner *reference*

Synopsis	Script policy owner
Context	**configure** log event-handling handler *named-item* entry *number* script-policy owner *reference*
Tree	owner
Default	TiMOS CLI
Reference	**configure** system script-control script-policy *named-item* owner *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

event-trigger

Synopsis	Enter the **event-trigger** context
Context	**configure** log event-trigger
Tree	event-trigger
Introduced	25.3.R2
Platforms	SAR Gen 2

adp event *keyword*

Synopsis	Enter the **adp** list instance
Context	**configure** log event-trigger adp event *keyword*
Tree	adp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger adp event *keyword*
Tree	adp
Options	tmnxDiscoveryEndNotify, tmnxDiscoveryCellularReq
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger adp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger adp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger adp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger adp event *keyword* entry *number*
Tree	entry

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Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger adp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger adp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger adp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger adp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger adp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger adp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger adp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-prov event *keyword*

Synopsis	Enter the **auto-prov** list instance
Context	**configure** log event-trigger auto-prov event *keyword*
Tree	auto-prov
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger auto-prov event *keyword*
Tree	auto-prov
Options	autoNodeProv
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger auto-prov event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger auto-prov event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger auto-prov event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger auto-prov event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger auto-prov event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd event *keyword*

Synopsis	Enter the **bfd** list instance
Context	**configure** log event-trigger bfd event *keyword*
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger bfd event *keyword*
Tree	bfd
Options	tmnxBfdOnLspSessDown, tmnxBfdOnLspSessUp, tmnxBfdOnLspSessDeleted, tmnxBfdOnLspSessProtChange, tmnxBfdOnLspSessNoCpmNpResources, tmnxBfdOnLspSessNoTailResources, tmnxBfdOnLspExtSessDown, tmnxBfdOnLspExtSessUp, tmnxBfdOnLspExtSessDeleted, tmnxBfdOnLspExtSessProtChange, tmnxBfdOnLspExtSessNoCpmNpResrcs
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger bfd event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger bfd event *keyword* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger bfd event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger bfd event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger bfd event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger bfd event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger bfd event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger bfd event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger bfd event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger bfd event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger bfd event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp event *keyword*

Synopsis	Enter the **bgp** list instance
Context	**configure** log event-trigger bgp event *keyword*
Tree	bgp
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger bgp event *keyword*
Tree	bgp
Options	sendNotification, receiveNotification, bgpInterfaceDown, bgpConnNoKA, bgpConnNoOpenRcvd, bgpRejectConnBadLocAddr, bgpRemoteEndClosedConn, bgpPeerNotFound, bgpConnMgrTerminated, bgpTerminated, bgpNoMemoryPeer, bgpVariableRangeViolation, bgpCfgViol, tBgpPeerGRStatusChange, tBgpNgEstablished, tBgpNgBackwardTransition, tBgpPeerNgHoldTimeInconsistent, tBgpFlowspecUnsupportdComAction, tBgp4RouteInvalid, tBgp4PathAttrInvalid, tBgp4WithdrawnRtFromUpdateError, tBgp4UpdateInvalid, tBgpGeneral, tBgpFibResourceFailPeer, tBgpReceivedInvalidNlri, tBgpMaxNgPfxLmt, tBgpMaxNgPfxLmtThresholdReached, tBgpInstanceDynamicPeerLmtReachd, tBgpPGDynamicPeerLmtReached, bgpEstablishedNotification, bgpBackwardTransNotification, tBgp4PathAttrDiscarded, tmnxBmpSessionStatusChange, tBgpInstConvStateTransition, tBgpPeerNgGRStatusChange, tBgpPGDynNbrIfMaxSessLmtReachd
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger bgp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger bgp event *keyword* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger bgp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger bgp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger bgp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context

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Context	**configure** log event-trigger bgp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger bgp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger bgp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger bgp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger bgp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger bgp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

chassis event *keyword*

Synopsis	Enter the **chassis** list instance
Context	**configure** log event-trigger chassis event *keyword*
Tree	chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context **configure** log event-trigger chassis event *keyword*

Tree chassis

Options tmnxEqCardFailure, tmnxEqCardInserted, tmnxEqCardRemoved, tmnxEqWrongCard, tmnxEnvTempTooHigh, tmnxEqPowerSupplyInserted, tmnxEqPowerSupplyRemoved, tmnxRedPrimaryCPMFail, tmnxChassisNotificationClear, tmnxEqSyncIfTimingHoldover, tmnxEqSyncIfTimingHoldoverClear, tmnxEqSyncIfTimingRef1Alarm, tmnxEqSyncIfTimingRef1AlarmClear, tmnxEqSyncIfTimingRef2Alarm, tmnxEqSyncIfTimingRef2AlarmClear, tmnxEqFlashDataLoss, tmnxEqFlashDiskFull, tmnxPeSoftwareVersionMismatch, tmnxPeSoftwareLoadFailed, tmnxPeBootloaderVersionMismatch, tmnxPeBootromVersionMismatch, tmnxPeFPGAVersionMismatch, tmnxEqSyncIfTimingBITSAlarm, tmnxEqSyncIfTimingBITSAlarmClear, tmnxEqCardFirmwareUpgraded, tmnxChassisUpgradeInProgress, tmnxChassisUpgradeComplete, tmnxChassisHiBwMcastAlarm, tmnxEqOperStateChange, tmnxEqMdaCfgNotCompatible, tmnxCpmCardSyncFileNotPresent, tmnxEqMdaXplError, tmnxEqCardPChipError, tmnxEqCardSoftResetAlarm, tmnxEqMdaSyncENotCompatible, tmnxIPsecIsaGrpActiveIsaChgd, tmnxEqCardPChipMemoryEvent, tmnxIPsecIsaGrpUnableToSwitch, tmnxIPsecIsaGrpTnlLowWMark, tmnxIPsecIsaGrpTnlHighWMark, tmnxIPsecIsaGrpTnlMax, tmnxEqSyncIfTimingRef1Quality, tmnxEqSyncIfTimingRef2Quality, tmnxEqSyncIfTimingBITSQuality, tmnxEqSyncIfTimingBITS2Quality, tmnxEqSyncIfTimingRefSwitch, tmnxEqSyncIfTimingBITS2Alarm, tmnxEqSyncIfTimingBITS2AlarmClr, tmnxEqSyncIfTimingBITSOutRefChg, tmnxEqCardPChipCamEvent, tmnxEqSyncIfTimingSystemQuality, tmnxEqHwEnhancedCapability, tmnxEqSyncIfTimingPTPQuality, tmnxEqSyncIfTimingPTPAlarm, tmnxEqSyncIfTimingPTPAlarmClr, tmnxPeFirmwareVersionWarning, tmnxMDAIsaTunnelGroupChange, tmnxEqPowerCapacityExceeded, tmnxEqPowerCapacityExceededClear, tmnxEqPowerLostCapacity, tmnxEqPowerLostCapacityClear, tmnxEqPowerOverloadState, tmnxEqPowerOverloadStateClear, tmnxEqCardQChipBufMemoryEvent, tmnxEqCardQChipStatsMemoryEvent, tmnxEqCardQChipIntMemoryEvent, tmnxEqCardChipIfDownEvent, tmnxEqCardChipIfCellEvent, tmnxEqLowSwitchFabricCap, tmnxEqLowSwitchFabricCapClear, tmnxEqPowerSafetyAlertThreshold, tmnxEqPowerSafetyAlertClear, tmnxEqPowerSafetyLevelThreshold, tmnxEqPowerSafetyLevelClear, tmnxEqCardTChipParityEvent, tmnxEqProvPowerCapacityAlm, tmnxEqProvPowerCapacityAlmClr, tmnxPlcyAcctStatsPoolExcResource, tmnxPlcyAcctStatsPoolLowResource, tmnxPlcyAcctStatsEventOvrflwClr, tmnxPlcyAcctStatsEventOvrflw, tmnxIomResHighLimitReached, tmnxIomResExhausted, tmnxIomResStateClr, tmnxIomEventOverflow, tmnxIomEventOverflowClr, tmnxEqDataPathFailureProtImpact, tmnxExtStandbyCpmReboot, tmnxExtStandbyCpmRebootFail, tmnxEqMdaIngrXplError, tmnxSyncIfTimBITS2048khzUnsup, tmnxSyncIfTimBITS2048khzUnsupClr, tmnxEqMgmtEthRedStandbyRaise, tmnxEqMgmtEthRedStandbyClear, tmnxEqPhysChassPowerSupOvrTmp, tmnxEqPhysChassPowerSupOvrTmpClr, tmnxEqPhysChassPowerSupAcFail, tmnxEqPhysChassPowerSupAcFailClr, tmnxEqPhysChassPowerSupDcFail, tmnxEqPhysChassPowerSupDcFailClr, tmnxEqPhysChassPowerSupInFail, tmnxEqPhysChassPowerSupInFailClr, tmnxEqPhysChassPowerSupOutFail,

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tmnxEqPhysChassPowerSupOutFailCl, tmnxEqPhysChassisFanFailure, tmnxEqPhysChassisFanFailureClear, tIPsecIsaMemLowWatermark, tIPsecIsaMemHighWatermark, tIPsecIsaMemMax, tmnxCpmMemSizeMismatch, tmnxCpmMemSizeMismatchClear, tmnxPhysChassPwrSupWrgFanDir, tmnxPhysChassPwrSupWrgFanDirClr, tmnxPhysChassPwrSupPemACRect, tmnxPhysChassPwrSupPemACRectClr, tmnxPhysChassPwrSupInputFeed, tmnxPhysChassPwrSupInputFeedClr, tmnxEqBpEpromFail, tmnxEqBpEpromFailClear, tmnxEqBpEpromWarning, tmnxEqBpEpromWarningClear, tmnxPhysChassisPCMInputFeed, tmnxPhysChassisPCMInputFeedClr, tmnxIPMacQosIngOverload, tmnxIPMacQosIngOverloadClear, tmnxIPQosEgrOverload, tmnxIPQosEgrOverloadClear, tmnxIPv6QosIngOverload, tmnxIPv6QosIngOverloadClear, tmnxIPv6QosEgrOverload, tmnxIPv6QosEgrOverloadClear, tmnxIPMacFilterIngOverload, tmnxIPMacFilterIngOverloadClear, tmnxIPMacFilterEgrOverload, tmnxIPMacFilterEgrOverloadClear, tmnxIPv6FilterIngOverload, tmnxIPv6FilterIngOverloadClear, tmnxIPv6FilterEgrOverload, tmnxIPv6FilterEgrOverloadClear, tmnxIPMacCpmFilterOverload, tmnxIPMacCpmFilterOverloadClear, tmnxIPv6CpmFilterOverload, tmnxIPv6CpmFilterOverloadClear, tmnxGnssAcquiringFix, tmnxGnssAcquiredFix, tmnxPhysChassisPMOutFail, tmnxPhysChassisPMOutFailClr, tmnxPhysChassisPMInputFeed, tmnxPhysChassisPMInputFeedClr, tmnxPhysChassisFilterDoorOpen, tmnxPhysChassisFilterDoorClosed, tmnxPhysChassisPMOverTemp, tmnxPhysChassisPMOverTempClr, tmnxEqFpgaSoftError, tmnxEqSyncIfTimingSyncEQuality, tmnxEqSyncIfTimingSyncE2Quality, tmnxEqSyncIfTimingSyncEAlarm, tmnxEqSyncIfTimingSyncEAlarmClr, tmnxEqSyncIfTimingSyncE2Alarm, tmnxEqSyncIfTimingSyncE2AlarmClr, tmnxEqHwEventDetected, tmnxTunnelGrpEsaVmActivity, tmnxEsaDiscovered, tmnxEsaConnected, tmnxEsaDisconnected, tmnxEsaFailure, tmnxEsaCleared, tmnxEsaVmCreated, tmnxEsaVmBooted, tmnxEsaVmRemoved, tmnxEsaVmCleared, tmnxEsaVmFailure, tIPsecEsaVmMemLowWatermark, tIPsecEsaVmMemHighWatermark, tmnxPeKernelVersionMismatch, tmnxFPResourcePolicyModified, tmnxFPResourcePolicyModifiedClr, tmnxEqSyncIfTimingGnssQuality, tmnxEqSyncIfTimingGnss2Quality, tmnxEqSyncIfTimingGnssAlarm, tmnxEqSyncIfTimingGnss2Alarm, tmnxEqSyncIfTimingGnssAlarmClr, tmnxEqSyncIfTimingGnss2AlarmClr, tmnxEsaFirmwareUpgradeStarted, tmnxPlcyAcctPlcrPoolExcResource, tmnxPlcyAcctPlcrPoolLowResource, tChassisAirflowDirMismatch, tChassisAirflowDirMismatchClr, tChassisPowerSupplyMismatch, tChassisPowerSupplyMismatchClr, tChassisPowerSupplyUnsup, tmnxHwAggShpSchedEventOvrflwClr, tmnxHwAggShpSchedEventOvrflw, tmnxFPResOversubscribed, tmnxFPResOversubscribedCleared, tmnxIPMacFilterIngNearFull, tmnxIPMacFilterIngNearFullClear, tmnxIPMacFilterEgrNearFull, tmnxIPMacFilterEgrNearFullClear, tmnxIPv6FilterIngNearFull, tmnxIPv6FilterIngNearFullClear, tmnxIPv6FilterEgrNearFull, tmnxIPv6FilterEgrNearFullClear, tmnxEsaStolenTimeDetected, tmnxEsaHwStatusDegraded, tmnxEsaHwStatusDegradedClr, tmnxEsaHwStatusCritical, tmnxEsaHwStatusCriticalClr, tmnxEsaHwPwrSup1Degraded, tmnxEsaHwPwrSup1DegradedClr, tmnxEsaHwPwrSup1Failed, tmnxEsaHwPwrSup1FailedClr, tmnxEsaHwPwrSup2Degraded, tmnxEsaHwPwrSup2DegradedClr, tmnxEsaHwPwrSup2Failed,

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tmnxEsaHwPwrSup2FailedClr, tmnxEsaHwFanBankNonRedun, tmnxEsaHwFanBankNonRedunClr, tmnxEsaHwFanBankFailRedun, tmnxEsaHwFanBankFailRedunClr, tmnxEsaHwFanStatusDegraded, tmnxEsaHwFanStatusDegradedClr, tmnxEsaHwFanStatusFailed, tmnxEsaHwFanStatusFailedClr, tmnxEsaHwPwrSupMismatch, tmnxEsaHwPwrSupMismatchClr, tmnxEsaHwPwrSupBankNonRedun, tmnxEsaHwPwrSupBankNonRedunClr, tmnxEsaHwPwrSupBankFailRedun, tmnxEsaHwPwrSupBankFailRedunClr, tmnxEsaHwTemperatureDegraded, tmnxEsaHwTemperatureDegradedClr, tmnxEsaHwTemperatureFailed, tmnxEsaHwTemperatureFailedClr, tmnxPowerSupplyFanFailed, tmnxPowerSupplyFanFailedClear, tmnxIxrResourceHighUsage, tmnxIxrResourceExhausted, tmnxIxrResourceRecovered, tmnxIxrResourceHighUsageByOwner, tmnxIxrResourceExhaustedByOwner, tmnxIxrResourceRecoveredByOwner, tmnxSasAlarminput1StateChanged, tmnxSasAlarminput2StateChanged, tmnxSasAlarminput3StateChanged, tmnxSasAlarminput4StateChanged, tmnxAlarmInputVoltageFailure, tmnxIomRsrcUsageHighLimitReached, tmnxIomRsrcUsageExhausted, tmnxIomRsrcUsageRecovered, tmnxIomRsrcEventOverflow, tmnxIomRsrcEventOverflowClr, tmnxIomRsrcOwnerOversubscribed, tmnxIomRsrcOwnerOversubscrbdClr, tmnxInterChassisCommsDown, tmnxInterChassisCommsUp, tmnxCpmIcPortDown, tmnxCpmIcPortUp, tmnxCpmIcPortSFFInserted, tmnxCpmIcPortSFFRemoved, tmnxCpmANoLocalIcPort, tmnxCpmBNoLocalIcPort, tmnxCpmALocalIcPortAvail, tmnxCpmBLocalIcPortAvail, CpmIcPortSFFStatusFailure, CpmIcPortSFFStatusDDMCorrupt, CpmIcPortSFFStatusReadError, CpmIcPortSFFStatusUnsupported, tmnxCpmIcPortDDMFailure, tmnxCpmIcPortDDMClear, tmnxSfmIcPortDown, tmnxSfmIcPortUp, tmnxSfmIcPortSFFInserted, tmnxSfmIcPortSFFRemoved, SfmIcPortSFFStatusFailure, SfmIcPortSFFStatusDDMCorrupt, SfmIcPortSFFStatusReadError, SfmIcPortSFFStatusUnsupported, tmnxSfmIcPortDDMFailure, tmnxSfmIcPortDDMClear, tmnxSfmIcPortDegraded, tmnxSfmIcPortDegradedClear, tmnxCardResMacFdbHighUsgSet, tmnxCardResMacFdbHighUsgClr, tmnxPowerShelfInputPwrModeSwitch, tmnxPowerShelfCommsDown, tmnxPowerShelfCommsUp, tmnxPowerShelfOutputStatusSwitch, tmnxPowerShelfOutputStatusDown, tmnxPowerShelfOutputStatusUp, tmnxEqCardMissing, tmnxEqCardMissingClear, tmnxEqEsaHostPortCrcAlarm, tmnxEqEsaHostPortCrcAlarmClear, tmnxEsaFirmwareUpgradeInProgress, tmnxEsaFirmwareUpgradeDone, tmnxEsaFirmwareUpgradeFailed, tmnxChassisAntiTheftModeBoot, tmnxChassisAntiTheftUnlocked, tmnxEqLowPowerSwFabModeEnabled, tmnxEqLowPowerSwFabModeDisabled, tmnxChassisGoldenStatusEvent, tmnxEqFlashDiskFormatStart, tmnxEqFlashDiskFormatFinish, tmnxEsaColdRebooted, tmnxChassisAntiTheftMismatch, tmnxChassisAntiTheftMismatchClr

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger chassis event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger chassis event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger chassis event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger chassis event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger chassis event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger chassis event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger chassis event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response

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Context	**configure** log event-trigger chassis event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger chassis event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger chassis event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger chassis event *keyword* entry *number* handler *reference*

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Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

debug event *keyword*

Synopsis	Enter the **debug** list instance
Context	**configure** log event-trigger debug event *keyword*
Tree	debug
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger debug event *keyword*
Tree	debug
Options	traceEvent
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger debug event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger debug event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger debug event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger debug event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger debug event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger debug event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger debug event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger debug event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger debug event *keyword* entry *number* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger debug event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger debug event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp event *keyword*

Synopsis	Enter the **dhcp** list instance
Context	**configure** log event-trigger dhcp event *keyword*
Tree	dhcp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger dhcp event *keyword*
Tree	dhcp
Options	svcDHCPLseStateRestoreProblem, sapDHCPLeaseEntriesExceeded, sapDHCPLseStateOverride, sapDHCPSuspiciousPcktRcvd, sapDHCPLseStatePopulateErr, sdpBindDHCPLeaseEntriesExceeded, sdpBindDHCPLseStateOverride, sdpBindDHCPSuspiciousPcktRcvd, sdpBindDHCPLseStatePopulateErr, tmnxVRtrDHCPSuspiciousPcktRcvd, sapStaticHostDynMacConflict, sapDHCPProxyServerError, tmnxVRtrDHCPIfLseStatesExceeded, sdpBindDHCPProxyServerError, tmnxVRtrDHCP6RelayLseStExceeded, tmnxVRtrDHCP6ServerLseStExceeded, tmnxVRtrDHCP6LseStateOverride, tmnxVRtrDHCP6RelayReplyStripUni, tmnxVRtrDHCP6IllegalClientAddr, tmnxVRtrDHCP6AssignedIllegSubnet, tmnxVRtrDHCP6ClientMacUnresolved, sapDHCPLseStateMobilityError, sdpBindDHCPLseStateMobilityErr, svcDHCPMiscellaneousProblem, sapStatHost6DynMacConflict
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger dhcp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dhcp event *keyword* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger dhcp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger dhcp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger dhcp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger dhcp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger dhcp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger dhcp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dhcp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger dhcp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger dhcp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcps event *keyword*

Synopsis	Enter the **dhcps** list instance
Context	**configure** log event-trigger dhcps event *keyword*
Tree	dhcps
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger dhcps event *keyword*
Tree	dhcps
Options	tmnxDhcpSvrSubnetMinFreeExc, tmnxDhcpSvrHostConflict, tmnxDhcpSvrPoolUnknown, tmnxDhcpSvrLeaseNotOwner, tmnxDhcpSvrDeclineStaticAddr, tmnxDhcpSvrMsgTooLong, tmnxDhcpsFoStateChange, tmnxDhcpsFoLeaseUpdateFailed, tmnxDhcpSvrUserDbUnknown, tmnxDhcpSvrMaxLeasesReached, tmnxDhcpSvrNoSubnetFixAddr, tmnxDhcpSvrLeaseDefaultTimers, tmnxDhcpSvrPoolMinFreeExc, tmnxDhcpSvrSubnetDepleted, tmnxDhcpSvrPoolDepleted, tmnxDhcpSvrIntLseConflict, tmnxDhcpSvrLeaseModify, tmnxDhcpSvrLeaseCreate, tmnxDhcpSvrLeaseDelete, tmnxLudbDhcpGroupIfTooLong, tmnxLudbPppoeGroupIfTooLong, tmnxDhcpSvrNoContFreeBlocks, tmnxDhcpsPoolFoStateChange, tmnxDhcpsPoolFoLeaseUpdateFailed, tmnxDhcpSvrPlThTooLowV6, tmnxDhcpSvrPlThDepletedV6, tmnxDhcpSvrPfxThTooLowV6, tmnxDhcpSvrPfxThDepletedV6, tmnxDhcpsLeaseOfferedExpired, tmnxDhcpsAddrAllocationFailure, tmnxDhcpsPacketDropped
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger dhcps event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dhcps event *keyword* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger dhcps event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger dhcps event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger dhcps event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context

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Context	**configure** log event-trigger dhcps event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger dhcps event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger dhcps event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dhcps event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger dhcps event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger dhcps event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

diameter event *keyword*

Synopsis	Enter the **diameter** list instance
Context	**configure** log event-trigger diameter event *keyword*
Tree	diameter
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context	**configure** log event-trigger diameter event *keyword*
Tree	diameter
Options	tmnxDiamPolicyPeerStateChange, tmnxDiamAppSessionFailure, tmnxDiamSessionEvent, tmnxDiamPpPrxMcLocStateChanged, tmnxDiamMessageDropped, tmnxDiamNdPeerStatActiveChanged
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger diameter event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger diameter event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger diameter event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger diameter event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger diameter event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger diameter event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger diameter event *keyword* entry *number* debounce time *number*

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Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger diameter event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger diameter event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger diameter event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered.

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It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

Reference **configure** log filter *log-filter-name*

Introduced 25.3.R2

Platforms SAR Gen 2

handler *reference*

Synopsis Event handler for EHS event trigger entry

Context **configure** log event-trigger diameter event *keyword* entry *number* handler *reference*

Tree handler

Reference **configure** log event-handling handler *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

dot1x event *keyword*

Synopsis Enter the **dot1x** list instance

Context **configure** log event-trigger dot1x event *keyword*

Tree dot1x

Introduced 25.3.R2

Platforms SAR Gen 2

event *keyword*

Synopsis Events for dynsvc module

Context **configure** log event-trigger dot1x event *keyword*

Tree dot1x

Options alxDot1xHostAuthEvent

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger dot1x event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dot1x event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger dot1x event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger dot1x event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger dot1x event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger dot1x event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger dot1x event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger dot1x event *keyword* entry *number* debounce value *number*

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Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dot1x event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger dot1x event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger dot1x event *keyword* entry *number* handler *reference*
Tree	handler

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Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

dynsvc event *keyword*

Synopsis	Enter the **dynsvc** list instance
Context	**configure** log event-trigger dynsvc event *keyword*
Tree	dynsvc
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger dynsvc event *keyword*
Tree	dynsvc
Options	tmnxDynSvcSapFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger dynsvc event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger dynsvc event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger dynsvc event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger dynsvc event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger dynsvc event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

efm-oam event *keyword*

Synopsis	Enter the **efm-oam** list instance
Context	**configure** log event-trigger efm-oam event *keyword*
Tree	efm-oam
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger efm-oam event *keyword*
Tree	efm-oam
Options	tmnxDot3OamPeerChanged, tmnxDot3OamLoopDetected, tmnxDot3OamLoopCleared, dot3OamThresholdEvent, dot3OamNonThresholdEvent, tmnxDot3OamSdThresholdEvent, tmnxDot3OamThresholdEventClr, tmnxDot3OamNonThresholdEventClr
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger efm-oam event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger efm-oam event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance

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Context	**configure** log event-trigger efm-oam event *keyword* entry *number*
Tree	entry
Description	This command configures an instance of a trigger for an EHS handler. A trigger entry binds a set of matching criteria for a log event to a particular handler. If the log event occurs in the system and matches the criteria configured in the associated log filter, the handler is executed.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger efm-oam event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* debounce
Tree	debounce

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Description	Commands in this context configure when to trigger a debounce, for example after one or more event occurrences. The number of occurrences of an event can be bounded by a time window or left open.
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger efm-oam event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ering event *keyword*

Synopsis	Enter the **ering** list instance
Context	**configure** log event-trigger ering event *keyword*
Tree	ering
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ering event *keyword*
Tree	ering
Options	tmnxEthRingPathFwdStateChange, tmnxEthRingApsPrvsnRaiseAlarm, tmnxEthRingApsPrvsnClearAlarm
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ering event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ering event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ering event *keyword* entry *number*

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Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ering event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ering event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ering event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response

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Context	**configure** log event-trigger ering event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ering event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ering event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ering event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered.

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It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

Reference **configure** log filter *log-filter-name*

Introduced 25.3.R2

Platforms SAR Gen 2

handler *reference*

Synopsis Event handler for EHS event trigger entry

Context **configure** log event-trigger ering event *keyword* entry *number* handler *reference*

Tree handler

Reference **configure** log event-handling handler *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

eth-cfm event *keyword*

Synopsis Enter the **eth-cfm** list instance

Context **configure** log event-trigger eth-cfm event *keyword*

Tree eth-cfm

Introduced 25.3.R2

Platforms SAR Gen 2

event *keyword*

Synopsis Log event as a trigger for one or more EHS handlers

Context **configure** log event-trigger eth-cfm event *keyword*

Tree eth-cfm

Options dot1agCfmFaultAlarm, tmnxDot1agCfmMepLbmTestComplete, tmnxDot1agCfmMepLtmTestComplete, tmnxDot1agCfmMepEthTestComplete, tmnxDot1agCfmMepDMTestComplete, tmnxDot1agCfmMepAisStateChanged, tmnxDot1agCfmMipEvaluation, tmnxDot1agCfmMepSLMTestComplete, tmnxDot1agCfmMepCsfStateChanged, tmnxDot1agCfmMepFcltyFaultRaise, tmnxDot1agCfmMepFcltyFaultClear, tmnxDot1agCfmMepOperGrpStateChgd

Notes This element is part of a list key.

Introduced 25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger eth-cfm event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger eth-cfm event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number*
Tree	entry

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Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger eth-cfm event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

etun event *keyword*

Synopsis	Enter the **etun** list instance
Context	**configure** log event-trigger etun event *keyword*
Tree	etun
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger etun event *keyword*
Tree	etun
Options	tmnxEthTunnelApsCfgRaiseAlarm, tmnxEthTunnelApsCfgClearAlarm, tmnxEthTunnelApsPrvsnRaiseAlarm, tmnxEthTunnelApsPrvsnClearAlarm, tmnxEthTunnelApsNoRspRaiseAlarm, tmnxEthTunnelApsNoRspClearAlarm, tmnxEthTunnelApsSwitchoverAlarm
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger etun event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger etun event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger etun event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger etun event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry

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Context	**configure** log event-trigger etun event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger etun event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger etun event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger etun event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger etun event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger etun event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger etun event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter event *keyword*

Synopsis	Enter the **filter** list instance
Context	**configure** log event-trigger filter event *keyword*
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger filter event *keyword*
Tree	filter
Options	tIPFilterPBRPacketsDrop, tFilterSubInsSpaceAlarmRaised, tFilterSubInsSpaceAlarmCleared, tFilterSubInsFltrEntryDropped, tFilterBgpFlowSpecProblem, tFilterApplyPathProblem, tFilterRadSharedFltrAlarmRaised, tFilterRadSharedFltrAlarmClear, tFilterEmbeddingOperStateChange, tFilterEmbedFlowspecOperStateChg, tFilterRPActiveDestChangeEvent
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger filter event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger filter event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger filter event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger filter event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger filter event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger filter event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger filter event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger filter event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger filter event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger filter event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger filter event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

gsmp event *keyword*

Synopsis	Enter the **gsmp** list instance
Context	**configure** log event-trigger gsmp event *keyword*
Tree	gsmp
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger gsmp event *keyword*
Tree	gsmp
Options	tmnxAncpIngRateMonitorEvent, tmnxAncpIngRateMonitorEventL, tmnxAncpEgrRateMonitorEvent, tmnxAncpEgrRateMonitorEventL, tmnxAncpShcvDisabledEvent, tmnxAncpShcvDisabledEventL, tmnxAncpSesRejected, tmnxAncpStringRejected
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger gsmp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger gsmp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance

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Context	**configure** log event-trigger gsmp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger gsmp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger gsmp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger gsmp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

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time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger gsmp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger gsmp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger gsmp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger gsmp event *keyword* entry *number* filter *reference*
Tree	filter

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Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger gsmp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp event *keyword*

Synopsis	Enter the **igmp** list instance
Context	**configure** log event-trigger igmp event *keyword*
Tree	igmp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger igmp event *keyword*
Tree	igmp
Options	vRtrIgmpIfRxQueryVerMismatch, vRtrIgmpIfCModeRxQueryMismatch, vRtrIgmpMaxGrpsLimitExceeded, vRtrIgmpMcacPlcyDropped, vRtrIgmpHostInstantiationFail, vRtrIgmpHostMaxGrpsLimitExceeded, vRtrIgmpHostMcacPlcyDropped, vRtrIgmpHostCModeRxQueryMismatch, vRtrIgmpHostRxQueryVerMismatch, vRtrIgmpHostMaxSrcsLimitExceeded,

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	vRtrIgmpMaxSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpsLimExceed, vRtrIgmpGrpIfSapMaxSrcsLimExceed, vRtrIgmpGrpIfSapMcacPlcyDropped, vRtrIgmpGrpIfSapCModeRxQueryMism, vRtrIgmpGrpIfSapRxQueryVerMism, vRtrIgmpHostMaxGrpSrcsLimitExcd, vRtrIgmpMaxGrpSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpSrcLimExcd, vRtrIgmpHostQryIntervalConflict, vRtrIgmpNotifyNumOfIPsecIfLowWm, vRtrIgmpNotifyNumOfIPsecIfHighWm, vRtrIgmpNotifyNumOfIPsecIfMaxRch, vRtrIgmpSlaProfInstMcacPlcyDrop
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger igmp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger igmp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger igmp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger igmp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger igmp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger igmp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger igmp event *keyword* entry *number* debounce time *number*
Tree	time

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Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger igmp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger igmp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger igmp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

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Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger igmp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp-snooping event *keyword*

Synopsis	Enter the **igmp-snooping** list instance
Context	**configure** log event-trigger igmp-snooping event *keyword*
Tree	igmp-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger igmp-snooping event *keyword*
Tree	igmp-snooping
Options	sapIgmpSnpgGrpLimitExceeded, sapIgmpSnpgMcacPlcyDropped, sdpBndIgmpSnpgGrpLimitExceeded, sdpBndIgmpSnpgMcacPlcyDropped, sapIgmpSnpgMcsFailure, sapIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgGrpSrcLimitExceed, sapIgmpSnpgGrpSrcLimitExceeded, eMplsIgmpSnpgMfibFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger igmp-snooping event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger igmp-snooping event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response

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Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry

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Context	**configure** log event-trigger igmp-snooping event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ip event *keyword*

Synopsis	Enter the **ip** list instance
Context	**configure** log event-trigger ip event *keyword*
Tree	ip
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ip event *keyword*
Tree	ip
Options	clearRTMError, ipEtherBroadcast, ipDuplicateAddress, ipArpInfoOverwritten, fibAddFailed, qosNetworkPolicyMallocFailed, ipArpBadInterface, ipArpDuplicateIpAddress, ipArpDuplicateMacAddress, ipAnyDuplicateAddress, labelIndexAllocFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ip event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ip event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ip event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ip event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ip event *keyword* entry *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ip event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ip event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ip event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger ip event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ip event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ip event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec event *keyword*

Synopsis	Enter the **ipsec** list instance
Context	**configure** log event-trigger ipsec event *keyword*

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Tree	ipsec
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ipsec event *keyword*
Tree	ipsec
Options	tIPsecRUTnlFailToCreate, tIPsecRUSAFailToAddRoute, tIPsecBfdIntfSessStateChgd, tIPsecRadAcctPlcyFailure, tIPSecTrustAnchorPrfOprChg, tIPsecTunnelEncapIpMtuTooSmall, tIPsecRuTnlEncapIpMtuTooSmall, tmnxSecNotifCmptedCertHashChngd, tmnxSecNotifCmptedCertChnChngd, tmnxSecNotifSendChnNotInCmptChn, tmnxIPsecTunnelOperStateChange, tmnxIPsecGWOperStateChange, tIPsecRUTnlRemoved, tIPsecTunnelProtocolFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ipsec event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ipsec event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ipsec event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ipsec event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ipsec event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ipsec event *keyword* entry *number* debounce

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Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ipsec event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ipsec event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ipsec event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ipsec event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ipsec event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

isis event *keyword*

Synopsis	Enter the **isis** list instance
Context	**configure** log event-trigger isis event *keyword*
Tree	isis
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context	**configure** log event-trigger isis event *keyword*
Tree	isis
Options	vRtrIsisSpbNbrMultAdjExists, vRtrIsisSpbNbrMultAdjExistsClear, vRtrSpbEctFidCfgChg, tmnxIsisDatabaseOverload, tmnxIsisManualAddressDrops, tmnxIsisCorruptedLSPDetected, tmnxIsisMaxSeqExceedAttempt, tmnxIsisIDLenMismatch, tmnxIsisMaxAreaAddrsMismatch, tmnxIsisOwnLSPPurge, tmnxIsisSequenceNumberSkip, tmnxIsisAutTypeFail, tmnxIsisAuthFail, tmnxIsisVersionSkew, tmnxIsisAreaMismatch, tmnxIsisRejectedAdjacency, tmnxIsisLSPTooLargeToPropagate, tmnxIsisOrigLSPBufSizeMismatch, tmnxIsisProtoSuppMismatch, tmnxIsisAdjacencyChange, tmnxIsisCircIdExhausted, tmnxIsisAdjRestartStatusChange, tmnxIsisLdpSyncTimerStarted, tmnxIsisLdpSyncExit, tmnxIsisExportLimitReached, tmnxIsisExportLimitWarning, tmnxIsisRoutesExpLmtDropped, tmnxIsisFailureDisabled, tmnxIsisSidError, tmnxIsisSidNotInLabelRange, tmnxIsisRejectedAdjacencySid, tmnxIsisLSPPurge, tmnxIsisPfxLimitOverloadWarning, tmnxIsisAdjBfdSessionSetupFail, tmnxIsisSrgbBadLabelRange, tmnxIsisCircMtuTooLow, tmnxIsisRejectedAdjacencySet, tmnxIsisCorruptRemainingLifetime, tmnxIsisSidStatsIndexAlloc, tmnxIsisFaOperParticipationDown, tmnxIsisRejectedEndXSid, tmnxIsisRejectedPgId, tmnxIsisSrv6LocError, tmnxIsisSrv6StaticSidIfTypeError, tmnxIsisMultiPartTlvTruncated, tmnxIsisMultiPartTlvReceived
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger isis event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger isis event *keyword* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger isis event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger isis event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger isis event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context

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Context	**configure** log event-trigger isis event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger isis event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger isis event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger isis event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger isis event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger isis event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

lag event *keyword*

Synopsis	Enter the **lag** list instance
Context	**configure** log event-trigger lag event *keyword*
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context	**configure** log event-trigger lag event *keyword*
Tree	lag
Options	DynamicCostOn, DynamicCostOff, LagPortAddFailed, LagSubGroupSelected, LagPortAddFailureCleared, LagStateEvent, tLagMemberStateEvent, tmnxLagBfdMemStateChanged, tLagAdaptiveLoadbalancingChanged
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger lag event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger lag event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger lag event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger lag event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger lag event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger lag event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger lag event *keyword* entry *number* debounce time *number*
Tree	time

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Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger lag event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger lag event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger lag event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

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Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger lag event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ldap event *keyword*

Synopsis	Enter the **ldap** list instance
Context	**configure** log event-trigger ldap event *keyword*
Tree	ldap
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ldap event *keyword*
Tree	ldap
Options	tmnxLdapOperStateChange, tmnxLdapServerOperStateChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ldap event *keyword* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ldap event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ldap event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ldap event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ldap event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ldap event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ldap event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ldap event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ldap event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ldap event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ldap event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ldp event *keyword*

Synopsis	Enter the **ldp** list instance
Context	**configure** log event-trigger ldp event *keyword*
Tree	ldp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ldp event *keyword*
Tree	ldp
Options	vRtrLdpStateChange, vRtrLdpGroupIdMismatch, vRtrLdpNgIpv4InstStateChange, vRtrLdpNgIpv6InstStateChange, vRtrLdpNgIfStateChange, vRtrLdpNgInetIfStateChange, vRtrLdpNgTargPeerStateChange, vRtrLdpNgSessionStateChange, vRtrLdpNgSessMaxFecThresChanged, vRtrLdpNgSessMaxFecLimitReached, vRtrLdpNgResourceExhaustion, vRtrLdpNgAddrFecCommMismatch
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ldp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger ldp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ldp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ldp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ldp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ldp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ldp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ldp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ldp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ldp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ldp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

lldp event *keyword*

Synopsis	Enter the **lldp** list instance
Context	**configure** log event-trigger lldp event *keyword*
Tree	lldp
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger lldp event *keyword*
Tree	lldp
Options	lldpRemTablesChange, tmnxLldpRemEntryPeerAdded, tmnxLldpRemEntryPeerUpdated, tmnxLldpRemEntryPeerRemoved, tmnxLldpRemManAddrEntryAdded, tmnxLldpRemManAddrEntryRemoved
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger lldp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger lldp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance

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Context	**configure** log event-trigger lldp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger lldp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger lldp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger lldp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

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time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger lldp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger lldp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger lldp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger lldp event *keyword* entry *number* filter *reference*
Tree	filter

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Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger lldp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

logger event *keyword*

Synopsis	Enter the **logger** list instance
Context	**configure** log event-trigger logger event *keyword*
Tree	logger
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger logger event *keyword*
Tree	logger
Options	STARTED, tmnxLogTraceError, tmnxLogSpaceContention, tmnxLogAdminLocFailed, tmnxLogBackupLocFailed, tmnxLogFileRollover, tmnxLogFileDeleted, tmnxClear, tmnxTestEvent, tmnxLogEventThrottled, tmnxSysLogTargetProblem, tmnxLogAccountingDataLoss, tmnxStdEventsReplayed, tmnxLogOnlyEventThrottled, tmnxLogEventOverrun, tmnxLogOnlyEventOverrun, tmnxCustomEvent1,

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	tmnxCustomEvent2, tmnxCustomEvent3, tmnxCustomEvent4, tmnxCustomEvent5, tmnxCustomEvent6, tmnxNetconfNotifyOverrun
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger logger event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger logger event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger logger event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger logger event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger logger event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger logger event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger logger event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger logger event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger logger event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger logger event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger logger event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

macsec event *keyword*

Synopsis	Enter the **macsec** list instance
Context	**configure** log event-trigger macsec event *keyword*
Tree	macsec
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger macsec event *keyword*
Tree	macsec
Options	tmnxMacsecConfiguredPortCA, tmnxMacsecUnconfiguredPortCA, tmnxMacsecEnabledPort, tmnxMacsecDisabledPort, tmnxMacsecMaxPeerLimitExceeded, tmnxMkaSessionEstablished, tmnxMkaPskRollover, tmnxMkaSessionEnded, tmnxMkaOperStateChanged, tmnxMacsecMaxPeerLimitCleared, tmnxMacsecCaCreate, tmnxMacsecSakCreate, tmnxMacsecSakInstalledRx, tmnxMacsecSakInstalledTx, tmnxMacsecMkaReplayAttemptDisc, tmnxMacsecDpReplayAttempt, tmnxMacsecSakDelete, tmnxMacsecPrimKeychainNoActKey, tmnxMacsecPrimKeychainHasActKey, tmnxMacsecRecovKeychainNoActKey, tmnxMacsecRecovKeychainHasActKey, tmnxMacsecConnAssocCreated, tmnxMacsecConnAssocDeleted
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger macsec event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger macsec event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger macsec event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger macsec event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger macsec event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger macsec event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger macsec event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response

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Context	**configure** log event-trigger macsec event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger macsec event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger macsec event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger macsec event *keyword* entry *number* handler *reference*

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Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-redundancy event *keyword*

Synopsis	Enter the **mc-redundancy** list instance
Context	**configure** log event-trigger mc-redundancy event *keyword*
Tree	mc-redundancy
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mc-redundancy event *keyword*
Tree	mc-redundancy
Options	tmnxMcRedundancyPeerStateChanged, tmnxMcRedundancyMismatchDetected, tmnxMcRedundancyMismatchResolved, tmnxMcPeerSyncStatusChanged, tmnxMcSyncClientAlarmRaised, tmnxMcSyncClientAlarmCleared, tmnxSrrpSubnetMismatch, tmnxSrrpSubnetMismatchCleared, tmnxSrrpInstanceIdMismatch, tmnxSrrpSapMismatch, tmnxSrrpSapTagMismatch, tmnxSrrpRedIfMismatch, tmnxSrrpDualMaster, tmnxMcLagInfoLagChanged, tmnxSrrpSystemIpNotSet, tmnxMcRingOperStateChanged, tmnxMcRingInbCtrlOperStateChgd, tmnxMcRingNodeLocOperStateChgd, tmnxMcSyncClockSkewRaised, tmnxMcSyncClockSkewCleared, tmnxSrrpDuplicateSubIfAddress, tmnxMcPeerRingsOperStateChanged, tmnxSrrpTrapNewMaster, tmnxSrrpBecameBackup, srrpPacketDiscarded, tmnxSrrpBfdIntfSessStateChgd, tmnxMcPeerEPBfdSessionOpen, tmnxMcPeerEPBfdSessionClose, tmnxMcPeerEPBfdSessionUp, tmnxMcPeerEPBfdSessionDown, tmnxMcPeerEPOperDown, tmnxMcPeerEPOperUp, tmnxMCEPSessionPsvModeEnabled, tmnxMCEPSessionPsvModeDisabled, tMcPeerIPsecTnlGrpMasterStateChg, tMcPeerIPsecTnlGrpProtStatusChg, tmnxMcOmcrStatFailedChanged, tmnxMcOmcrClientNumEntriesHigh, tmnxSrrpOperDownInvalidMac, tmnxSrrpOperDownInvalidMacClear, tmnxSrrpPrivRetailMismatch, tMcIPsecDomainActivityStateChg, tMcIpsecDomainProtStatusChg
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mc-redundancy event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mc-redundancy event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response

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Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry

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Context	**configure** log event-trigger mc-redundancy event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mcpath event *keyword*

Synopsis	Enter the **mcpath** list instance
Context	**configure** log event-trigger mcpath event *keyword*
Tree	mcpath
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mcpath event *keyword*
Tree	mcpath
Options	tmnxMcPathSrcGrpBlackHole, tmnxMcPathSrcGrpBlackHoleCleared, tmnxMcPathAvailBwLimitExceeded, tmnxMcPathAvailBwLimitCleared
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mcpath event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger mcpath event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mcpath event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mcpath event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger mcpath event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mcpath event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mcpath event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mcpath event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mcpath event *keyword* entry *number* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mcpath event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mcpath event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mgmt-core event *keyword*

Synopsis	Enter the **mgmt-core** list instance
Context	**configure** log event-trigger mgmt-core event *keyword*
Tree	mgmt-core
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mgmt-core event *keyword*
Tree	mgmt-core
Options	none, mdConfigChange, mdOcConfigChange, mdBofConfigChange, mdDebugConfigChange, asyncOperationStatusChange, syncOperationStatusChange, mdAutomaticRollbackFailed, mdRollbackFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mgmt-core event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mgmt-core event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2

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Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mgmt-core event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mirror event *keyword*

Synopsis	Enter the **mirror** list instance
Context	**configure** log event-trigger mirror event *keyword*
Tree	mirror
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context	**configure** log event-trigger mirror event *keyword*
Tree	mirror
Options	sourceEnabled, sourceDisabled, destinationEnabled, destinationDisabled, sourceIpFilterChange, sourceMacFilterChange, sourceSapChange, sourceSubscriberChange, tMirrorSourceIpv6FilterChange, tMirrorSapUnavailSath, tMirrorSapUnavailSathClr, tMirrorFltrUnavailSath, tMirrorFltrUnavailSathClr, tMirrorPortUnavailSath, tMirrorPortUnavailSathClr
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mirror event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mirror event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mirror event *keyword* entry *number*
Tree	entry

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mirror event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger mirror event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mirror event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mirror event *keyword* entry *number* debounce time *number*

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Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mirror event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mirror event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mirror event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

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Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mirror event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mld event *keyword*

Synopsis	Enter the **mld** list instance
Context	**configure** log event-trigger mld event *keyword*
Tree	mld
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mld event *keyword*
Tree	mld
Options	vRtrMldIfRxQueryVerMismatch, vRtrMldIfCModeRxQueryMismatch, vRtrMldMaxGrpsLimitExceeded, vRtrMldMcacPlcyDropped, vRtrMldHostInstantiationFail, vRtrMldHostMaxGrpsLimitExceeded, vRtrMldHostMcacPlcyDropped, vRtrMldHostCModeRxQueryMismatch, vRtrMldHostRxQueryVerMismatch, vRtrMldHostMaxSrcsLimitExceeded, vRtrMldMaxSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpsLimExceed, vRtrMldGrpIfSapMaxSrcsLimExceed, vRtrMldGrpIfSapMcacPlcyDropped, vRtrMldGrpIfSapCModeRxQueryMism, vRtrMldGrpIfSapRxQueryVerMism, vRtrMldHostMaxGrpSrcsLimitExcd, vRtrMldMaxGrpSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpSrcLimExcd, vRtrMldHostQryIntervalConflict, vRtrMldSlaProfInstMcacPlcyDrop
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mld event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mld event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mld event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mld event *keyword* entry *number*

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Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger mld event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mld event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mld event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mld event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mld event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mld event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mld event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping event *keyword*

Synopsis	Enter the **mld-snooping** list instance
Context	**configure** log event-trigger mld-snooping event *keyword*
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mld-snooping event *keyword*
Tree	mld-snooping
Options	sapMldSnpgGrpLimitExceeded, sdpBndMldSnpgGrpLimitExceeded, sapMldSnpgMcsFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mld-snooping event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mld-snooping event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry

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Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mld-snooping event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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mpls event *keyword*

Synopsis	Enter the **mpls** list instance
Context	**configure** log event-trigger mpls event *keyword*
Tree	mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mpls event *keyword*
Tree	mpls
Options	mplsXCUp, mplsXCDown, mplsTunnelUp, mplsTunnelDown, mplsTunnelRerouted, mplsTunnelReoptimized, vRtrMplsStateChange, vRtrMplsIfStateChange, vRtrMplsLspUp, vRtrMplsLspDown, vRtrMplsLspPathUp, vRtrMplsLspPathDown, vRtrMplsLspPathRerouted, vRtrMplsLspPathResignaled, vRtrMplsP2mpInstanceUp, vRtrMplsP2mpInstanceDown, vRtrMplsS2lSubLspUp, vRtrMplsS2lSubLspDown, vRtrMplsS2lSubLspRerouted, vRtrMplsS2lSubLspResignaled, vRtrMplsLspPathSoftPreempted, vRtrMplsLspPathLstFillReoptElig, vRtrMplsP2mpInstanceResignaled, vRtrMplsResignalTimerExpired, vRtrMplsLspPathMbbStatusEvent, vRtrMplsLspSwitchStbyFailure, vRtrMplsLspActivePathChanged, vRtrMplsXCBundleChange, vRtrMplsNodeInIgpOverload, vRtrMplsIPv6StateChange, vRtrMplsIfIPv6StateChange, vRtrMplsLspResourceExhaustion, vRtrMplsLspManualSwitchFailure, vRtrMplsLspPathManualDegStateChg, vRtrMplsS2lSubLspPreempted, vRtrMplsNodeInIgpOverloadIpv6, tmnxMplsResourceHighUsage, tmnxMplsResourceExhausted, tmnxMplsResourceRecovered, vRtrMplsLspContOptStarted, vRtrMplsLspContMaxLspsExceeded, vRtrMplsLspContMinLspsExceeded
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mpls event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mpls event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mpls event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mpls event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry

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Context	**configure** log event-trigger mpls event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mpls event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mpls event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mpls event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger mpls event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mpls event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mpls event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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mpls-tp event *keyword*

Synopsis	Enter the **mpls-tp** list instance
Context	**configure** log event-trigger mpls-tp event *keyword*
Tree	mpls-tp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger mpls-tp event *keyword*
Tree	mpls-tp
Options	vRtrMplsTpLspRevertMismatchAlarm, vRtrMplsTpLspRevertMismatchClear, vRtrMplsTpLspPtTypeMismatchAlarm, vRtrMplsTpLspPtTypeMismatchClear, vRtrMplsTpLspActivePathUp, vRtrMplsTpLspActivePathChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger mpls-tp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mpls-tp event *keyword* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger mpls-tp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp event *keyword*

Synopsis	Enter the **ntp** list instance
Context	**configure** log event-trigger ntp event *keyword*
Tree	ntp
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ntp event *keyword*
Tree	ntp
Options	tmnxNtpAuthMismatch, tmnxNtpNoServersAvail, tmnxNtpServersAvail, tmnxNtpOperChange, tmnxNtpServerChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ntp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ntp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ntp event *keyword* entry *number*

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Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ntp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ntp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ntp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response

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Context	**configure** log event-trigger ntp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ntp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ntp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ntp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered.

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It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

Reference **configure** log filter *log-filter-name*

Introduced 25.3.R2

Platforms SAR Gen 2

handler *reference*

Synopsis Event handler for EHS event trigger entry

Context **configure** log event-trigger ntp event *keyword* entry *number* handler *reference*

Tree handler

Reference **configure** log event-handling handler *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

oam event *keyword*

Synopsis Enter the **oam** list instance

Context **configure** log event-trigger oam event *keyword*

Tree oam

Introduced 25.3.R2

Platforms SAR Gen 2

event *keyword*

Synopsis Log event as a trigger for one or more EHS handlers

Context **configure** log event-trigger oam event *keyword*

Tree oam

Options tmnxOamPingProbeFailedV3, tmnxOamPingTestFailedV3, tmnxOamPingTestCompletedV3, tmnxAncpLoopbackTestCompleted, tmnxAncpLoopbackTestCompletedL, tmnxOamTrPathChange, tmnxOamTrTestFailed, tmnxOamTrTestCompleted, svcIdInvalid, svcIdWrongType, tmnxOamLdpTtraceAutoDiscState, tmnxOamLdpTtraceFecProbeState, tmnxOamLdpTtraceFecDisStatus, tmnxOamLdpTtraceFecPFailUpdate, tmnxOamSaaThreshold, tmnxOamDiagTestCompleted, tmnxTwampSrvInactivityTimeout, tmnxTwampSrvMaxConnsExceeded, tmnxTwampSrvPfxMaxConnsExceeded, tmnxTwampSrvMaxSessExceeded, tmnxTwampSrvPfxMaxSessExceeded, tmnxTwampRflInactivityTimeout,

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	tmnxOamPmThrRaise, tmnxOamPmThrClear, tmnxOamSathSvcTestCompleted, tmnxOamSathSvcStrmCompleted
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger oam event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger oam event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger oam event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger oam event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger oam event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger oam event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger oam event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger oam event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger oam event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger oam event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger oam event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf event *keyword*

Synopsis	Enter the **ospf** list instance
Context	**configure** log event-trigger ospf event *keyword*
Tree	ospf
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ospf event *keyword*
Tree	ospf
Options	tmnxOspfVirtIfStateChange, tmnxOspfVirtNbrStateChange, tmnxOspfVirtIfConfigError, tmnxOspfVirtIfAuthFailure, tmnxOspfVirtIfRxBadPacket, tmnxOspfAreaOriginateLsa, tmnxOspfAreaMaxAgeLsa, tmnxOspfLsdbOverflow, tmnxOspfLsdbApproachingOverflow, tmnxOspfNssaTranslatorStatusChg, tmnxOspfRestartStatusChange, tmnxOspfVirtNbrRestartHlprStsChg, tmnxOspfSpfRunsStopped, tmnxOspfSpfRunsRestarted, tmnxOspfOverloadEntered, tmnxOspfOverloadExited, tmnxOspfAsOriginateLsa, tmnxOspfAsMaxAgeLsa, tmnxOspfShamIfStateChange, tmnxOspfShamNbrStateChange, tmnxOspfShamIfConfigError, tmnxOspfShamIfAuthFailure, tmnxOspfShamIfRxBadPacket, tmnxOspfShamNbrRestartHlprStsChg, tmnxOspfFailureDisabled, tmnxOspfExportLimitReached, tmnxOspfExportLimitWarning, tmnxOspfRoutesExpLmtDropped, tmnxOspfNgNbrStateChange, tmnxOspfNgIfConfigError, tmnxOspfNgIfAuthFailure, tmnxOspfNgIfRxBadPacket, tmnxOspfNgIfStateChange, tmnxOspfNgNbrRestartHlprStsChg, tmnxOspfNgLinkOriginateLsa, tmnxOspfNgLinkMaxAgeLsa, tmnxOspfNgLdpSyncTimerStarted, tmnxOspfNgLdpSyncExit, tmnxOspfSrSidError,

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	tmnxOspfSrSidNotInLabelRange, tmnxOspfOverloadWarning, tmnxOspfRejectedAdjacencySid, tmnxOspfAdjBfdSessionSetupFail, tmnxOspfSrgbBadLabelRange, tmnxOspfRejectedAdjacencySet, tmnxOspfSidStatsIndexAlloc, tmnxOspfDynHostnameDuplicate, tmnxOspfDynHostnameInconsistent, tmnxOspfFaOperParticipationDown, tmnxOspfNgNbrStrictBfdBlocked
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ospf event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ospf event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ospf event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ospf event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ospf event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ospf event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ospf event *keyword* entry *number* debounce time *number*
Tree	time

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Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ospf event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ospf event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ospf event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

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Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ospf event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pcap event *keyword*

Synopsis	Enter the **pcap** list instance
Context	**configure** log event-trigger pcap event *keyword*
Tree	pcap
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger pcap event *keyword*
Tree	pcap
Options	tmnxPcapFileError, tmnxPcapBufferFull, tmnxPcapBufferReadWriteFailure, tmnxPcapSoftwareFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger

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Context	**configure** log event-trigger pcap event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pcap event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger pcap event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger pcap event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger pcap event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger pcap event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger pcap event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger pcap event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pcap event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger pcap event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger pcap event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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pcep event *keyword*

Synopsis	Enter the **pcep** list instance
Context	**configure** log event-trigger pcep event *keyword*
Tree	pcep
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	PCEP module events
Context	**configure** log event-trigger pcep event *keyword*
Tree	pcep
Options	tmnxPcepPccPeerStateChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger pcep event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pcep event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger pcep event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger pcep event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger pcep event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger pcep event *keyword* entry *number* debounce

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Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger pcep event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger pcep event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pcep event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger pcep event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger pcep event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pfcp event *keyword*

Synopsis	Enter the **pfcp** list instance
Context	**configure** log event-trigger pfcp event *keyword*
Tree	pfcp
Introduced	25.10.R1
Platforms	SAR Gen 2

event *keyword*

Synopsis	PFCP events

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Context	**configure** log event-trigger pfcp event *keyword*
Tree	pfcp
Options	none, tmnxPfcpInvalidIe, tmnxPfcpNoSuchCallTraceProfile, tmnxPfcpNoSecondaryInterface
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger pfcp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.10.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pfcp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger pfcp event *keyword* entry *number*
Tree	entry
Introduced	25.10.R1
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger pfcp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger pfcp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.10.R1
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger pfcp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.10.R1
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger pfcp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds

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Introduced	25.10.R1
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger pfcp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.10.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pfcp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger pfcp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.10.R1

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Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger pfcp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.10.R1
Platforms	SAR Gen 2

pim event *keyword*

Synopsis	Enter the **pim** list instance
Context	**configure** log event-trigger pim event *keyword*
Tree	pim
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger pim event *keyword*
Tree	pim
Options	vRtrPimNgIfNeighborLoss, vRtrPimNgIfNeighborUp, vRtrPimNgInvalidJoinPrune, vRtrPimNgInvalidRegister, vRtrPimNgGrpInSSMRange, vRtrPimNgBSRStateChange, vRtrPimNgHelloDropped, vRtrPimNgSGLimitExceeded, vRtrPimNgReplicationLmtExceeded, vRtrPimNgMDTLimitExceeded, vRtrPimNgMaxGrpsLimitExceeded, vRtrPimNgDataMtReused, vRtrPimNgMcacPlcyDropped, vRtrPimNgInvalidIPmsiTunnel, vRtrPimNgMaxGraftRetry, vRtrPimNgBierInbInvSD, vRtrPimNgBierInbInvBfrId, vRtrPimNgUmhBMonFastFailPriToStb, vRtrPimNgUmhBMonFastFailStbToPri, vRtrPimNgInstMaxNbrReached, vRtrPimNgIfMaxNbrReached
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger pim event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pim event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger pim event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger pim event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger pim event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger pim event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger pim event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger pim event *keyword* entry *number* debounce value *number*

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Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger pim event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger pim event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger pim event *keyword* entry *number* handler *reference*
Tree	handler

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Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pim-snooping event *keyword*

Synopsis	Enter the **pim-snooping** list instance
Context	**configure** log event-trigger pim-snooping event *keyword*
Tree	pim-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger pim-snooping event *keyword*
Tree	pim-snooping
Options	tmnxPimSnpgIfNeighborLoss, tmnxPimSnpgIfNeighborUp, tmnxPimSnpgSGLimitExceeded, tmnxPimSnpgSnoopModeChanged, tmnxPimSnpgIfMaxNbrReached, tmnxPimSnpgMaxNbrReached
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger pim-snooping event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger pim-snooping event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger pim-snooping event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

port event *keyword*

Synopsis	Enter the **port** list instance

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Context	**configure** log event-trigger port event *keyword*
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger port event *keyword*
Tree	port
Options	sonetSDHAlarmSet, sonetSDHAlarmClear, sonetSDHChannelAlarmSet, sonetSDHChannelAlarmClear, SFPInserted, SFPRemoved, SFPStatusFailure, portError, ds3AlarmSet, ds3AlarmClear, ds1AlarmSet, ds1AlarmClear, etherAlarmSet, etherAlarmClear, ds1LoopbackStart, ds1LoopbackStop, ds3LoopbackStart, ds3LoopbackStop, sdhLoopbackStart, sdhLoopbackStop, etherLoopDetected, etherLoopCleared, etherSpeedNotCompatible, etherDuplexNotCompatible, etherIngressRateCfgNotCompatible, digitalDiagnosticMonitorFailed, SFPStatusDDMCorrupt, SFPStatusReadError, SFPStatusUnsupported, dsxClockSyncStateChange, tmnxPortUnsupportedFunction, otuAlarms, tPortAccEgrQGrpHostMatchFailure, tPortEgrVPortHostMatchFailure, digitalDiagnosticMonitorCleared, tmnxEqSonetClockSrcNotCompatible, tmnxEqSonetSfThreshNotCompatible, tmnxEqSonetFramingNotCompatible, tmnxResvCbsPoolThreshGreen, tmnxResvCbsPoolThreshAmber, tmnxResvCbsPoolThreshRed, tmnxEqPortEtherCrcAlarm, tmnxEqPortEtherCrcAlarmClear, tmnxEqPortEtherInternalAlarm, tmnxEqPortEtherInternalAlarmClr, tmnxEqCohOptPortAlarm, tmnxEqPortEtherSymMonAlarm, tmnxEqPortEtherSymMonAlarmClear, SFPStatusCulprit, SFPStatusBlocked, SFPStatusOperational, tmnxRS232ControlLeadSignalChg, tmnxRS232SquelchStatusChange, tmnxRS232SquelchResetIssued, tmnxCellularBearerCreated, tmnxCellularBearerDeleted, tmnxCellularBearerModified, tmnxEqPortEtherEgressRateChange, tmnxCellularNoServiceReset, tmnxCellularActiveSimChange, tmnxPortEtherLoopbackStarted, tmnxPortEtherLoopbackStopped, tmnxPortGnssStatusChange, tmnxWlanNetworkConnected, tmnxWlanNetworkDisconnected, tmnxPortAUIReset, tmnxCellPortCbsdRegistered, tmnxCellPortCbsdUnregistered, tmnxCellPortCbsdGranted, tmnxCellPortCbsdAuthorized, tmnxCellPortCbsdTransDown, tmnxHwAggShpSchedOperColorGreen, tmnxHwAggShpSchedOperColorAmber, tmnxHwAggShpSchedOperColorRed, tmnxCellularRssiAlarm, tmnxCellularRssiAlarmClear, SFPStatusInvalidFormFactor, SFPStatusModuleFault, tmnxDS0ChanGrpLoopbackStarted, tmnxDS0ChanGrpLoopbackStopped, tmnxResvPoolUseThreshExcd, tmnxResvPoolUseThreshNotExcd, tmnxTotalPoolUseThreshExcd, tmnxTotalPoolUseThreshNotExcd, tmnxSharedPoolUseThreshExcd, tmnxSharedPoolUseThreshNotExcd, tmnxEqPortFlexEGroupAlrm, tmnxEqPortFlexEGroupAlrmClr, tmnxEqPortFlexEMemberAlrm, tmnxEqPortFlexEMemberAlrmClr, tmnxEqPortFlexEMbrPhyInstAlrm, tmnxEqPortFlexEMbrPhyInstAlrmClr,

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	tmnxEqPortDataChanAlarm, tmnxEqPortDataChanAlarmClear, tmnxEqPortDataLoopbackStarted, tmnxEqPortDataLoopbackStopped, tmnxEqPortRs232LoopbackStarted, tmnxEqPortRs232LoopbackStopped, tmnxEqPortRS232Alarm, tmnxEqPortRS232AlarmClear
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger port event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger port event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger port event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger port event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger port event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger port event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger port event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger port event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger port event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger port event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger port event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp event *keyword*

Synopsis	Enter the **ptp** list instance
Context	**configure** log event-trigger ptp event *keyword*
Tree	ptp
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ptp event *keyword*
Tree	ptp
Options	tmnxPtpCardNotSupported, tmnxPtpCardNotSupportedClear, tmnxPtpMasterClockChangedEvent, tmnxPtpClockRecoveryStateChange, tmnxPtpOutOfResources, tmnxPtpOutOfResourcesClear, tmnxPtpDynamicChange, tmnxPtpPortNoTimestamping, tmnxPtpPortPtsfUnusable, tmnxPtpTimeRecoveryStateChange, tmnxPtpPeerNoTxTimestamping, tmnxPtpPeerNoTxTimestampingClear, tmnxPtpPeerNoRxTimestamping, tmnxPtpPeerNoRxTimestampingClear
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ptp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ptp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ptp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ptp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger ptp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ptp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ptp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ptp event *keyword* entry *number* debounce value *number*

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Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ptp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ptp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ptp event *keyword* entry *number* handler *reference*
Tree	handler

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Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

python event *keyword*

Synopsis	Enter the **python** list instance
Context	**configure** log event-trigger python event *keyword*
Tree	python
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Python module events
Context	**configure** log event-trigger python event *keyword*
Tree	python
Options	tmnxPythonInterpreterRestarted, tmnxPythonPreComScrStarted, tmnxPythonPreComScrFinished, tmnxPythonPostComScrStarted, tmnxPythonPostComScrFinished, tmnxPythonPreComScrSkipped, tmnxPythonPostComScrSkipped
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger python event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger python event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger python event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger python event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger python event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger python event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger python event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger python event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger python event *keyword* entry *number* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger python event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger python event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

radius event *keyword*

Synopsis	Enter the **radius** list instance
Context	**configure** log event-trigger radius event *keyword*
Tree	radius
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger radius event *keyword*
Tree	radius
Options	tmnxRadSrvPlcySrvOperStateCh, tmnxRadRouteDownloadFailed, tmnxRadAcctOnOngoing
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger radius event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger radius event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger radius event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger radius event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger radius event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger radius event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

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time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger radius event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger radius event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger radius event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger radius event *keyword* entry *number* filter *reference*
Tree	filter

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Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger radius event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

rip event *keyword*

Synopsis	Enter the **rip** list instance
Context	**configure** log event-trigger rip event *keyword*
Tree	rip
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger rip event *keyword*
Tree	rip
Options	ripPacketDiscarded, vRtrRipAuthTypeMismatch, vRtrRipAuthTypeFailure, vRtrRipInstanceShuttingDown, vRtrRipInstanceRestarted, vRtrRipInstanceExpLmtReached, vRtrRipInstanceExpLmtWarning, vRtrRipInstanceRtsExpLmtDropped, vRtrRipPeerBfdDown

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger rip event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger rip event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger rip event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry

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Context	**configure** log event-trigger rip event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger rip event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger rip event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger rip event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger rip event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger rip event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger rip event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger rip event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ripng event *keyword*

Synopsis	Enter the **ripng** list instance
Context	**configure** log event-trigger ripng event *keyword*
Tree	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger ripng event *keyword*
Tree	ripng
Options	tmnxRipNgPacketDiscarded, tmnxRipNgAuthTypeMismatch, tmnxRipNgAuthFailure, tmnxRipNgInstShuttingDown, tmnxRipNgInstRestarted, tmnxRipNgInstExpLmtReached, tmnxRipNgInstExpLmtWarning, tmnxRipNgInstRtsExpLmtDropped, tmnxRipNgIfUcastAddrNotUsed, tmnxRipNgPeerBfdDown
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger ripng event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger ripng event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger ripng event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger ripng event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry

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Context	**configure** log event-trigger ripng event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger ripng event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger ripng event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger ripng event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger ripng event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger ripng event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger ripng event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-policy event *keyword*

Synopsis	Enter the **route-policy** list instance
Context	**configure** log event-trigger route-policy event *keyword*
Tree	route-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger route-policy event *keyword*
Tree	route-policy
Options	trigPolicyPrevEval
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger route-policy event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger route-policy event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger route-policy event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger route-policy event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger route-policy event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context

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Context	**configure** log event-trigger route-policy event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger route-policy event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger route-policy event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger route-policy event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger route-policy event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger route-policy event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

rpki event *keyword*

Synopsis	Enter the **rpki** list instance
Context	**configure** log event-trigger rpki event *keyword*
Tree	rpki
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context	**configure** log event-trigger rpki event *keyword*
Tree	rpki
Options	tmnxRpkiNotifySession, tmnxRpkiStaleTimerExpiry
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger rpki event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger rpki event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger rpki event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger rpki event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger rpki event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger rpki event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger rpki event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger rpki event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger rpki event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger rpki event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger rpki event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp event *keyword*

Synopsis	Enter the **rsvp** list instance
Context	**configure** log event-trigger rsvp event *keyword*
Tree	rsvp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger rsvp event *keyword*
Tree	rsvp
Options	vRtrRsvpStateChange, vRtrRsvpIfStateChange, vRtrRsvpIfNbrStateUp, vRtrRsvpIfNbrStateDown, vRtrRsvpPEFailOverPriToStdBy, vRtrRsvpPEFailOverStdByToPri
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger rsvp event *keyword* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger rsvp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger rsvp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger rsvp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger rsvp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger rsvp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger rsvp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger rsvp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger rsvp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger rsvp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger rsvp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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security event *keyword*

Synopsis	Enter the **security** list instance
Context	**configure** log event-trigger security event *keyword*
Tree	security
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger security event *keyword*
Tree	security
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, ssh_user_login, ssh_user_logout, ssh_user_login_failed, ssh_user_login_max_attempts, radiusOperStatusChange, user_disconnect, radiusSystemIpAddrNotSet, tacplusOperStatusChange, mafEntryMatch, ftp_transfer_successful, ftp_transfer_failed, enable_admin, host_snmp_attempts, SSH_server_preserve_key_fail, tacplusInetSrvrOperStatusChange, radiusInetServerOperStatusChange, tmnxKeyChainAuthFailure, tmnxCpmProtViolPort, tmnxCpmProtViolPortAgg, tmnxCpmProtViolIf, tmnxCpmProtViolSap, tmnxCpmProtViolMac, tmnxCpmProtViolVdoSvcClient, tmnxCpmProtViolVdoVrtrClient, tmnxMD5AuthFailure, tmnxCpmProtDefPolModified, tmnxCpmProtViolSdpBind, tmnxCpmProtExcdSdpBind, tmnxCpmProtExcdSapEcm, tmnxCpmProtExcdSdpBindEcm, tmnxPkiFileReadFailed, tmnxPkiCertVerificationFailed, tmnxCAProfileStateChange, tmnxCpmProtExcdSapIp, tmnxDcpFpDynPoolUsageHiAlmRaise, tmnxDcpFpDynPoolUsageHiAlmClear, tmnxDcpCardFpEventOvrflwClr, tmnxDcpCardSapEventOvrflwClr, tmnxDcpCardVrtrIfEventOvrflwClr, sapDcpStaticExcd, sapDcpDynamicExcd, sapDcpStaticHoldDownStart, sapDcpDynamicHoldDownStart, sapDcpStaticHoldDownEnd, sapDcpDynamicHoldDownEnd, sapDcpStaticConform, sapDcpDynamicConform, sapDcpLocMonExcd, sapDcpLocMonExcdDynResource, sapDcpLocMonExcdAllDynAlloc, sapDcpLocMonExcdAllDynFreed, sapDcpDynamicEnforceAlloc, sapDcpDynamicEnforceFreed, vRtrIfDcpStaticExcd, vRtrIfDcpDynamicExcd, vRtrIfDcpStaticHoldDownStart, vRtrIfDcpDynamicHoldDownStart, vRtrIfDcpStaticHoldDownEnd, vRtrIfDcpDynamicHoldDownEnd, vRtrIfDcpStaticConform, vRtrIfDcpDynamicConform, vRtrIfDcpLocMonExcd, vRtrIfDcpLocMonExcdDynResource, vRtrIfDcpLocMonExcdAllDynAlloc, vRtrIfDcpLocMonExcdAllDynFreed, vRtrIfDcpDynamicEnforceAlloc, vRtrIfDcpDynamicEnforceFreed, tmnxDcpCardFpEventOvrflw, tmnxDcpCardSapEventOvrflw, tmnxDcpCardVrtrIfEventOvrflw, tmnxPkiCAProfActnStatusChg, tmnxCpmProtViolSapOutProf, tmnxCpmProtViolIfOutProf, sysDNSSecFailedAuthentication, tmnxCpmProtExcdSdpBindIp,

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tmnxSecComputeCertChainFailure, tmnxCpmProtViolSdpBindOutProf, tmnxSecNotifKeyChainExpired, tmnxSysLicenseInvalid, tmnxSysLicenseExpiresSoon, tmnxPkiCAProfRevokeChkWarning, tmnxCAProfUpDueToRevokeChkCrlOpt, tmnxPkiCertBeforeExpWarning, tmnxPkiCertAfterExpWarning, tmnxPkiCertExpWarningCleared, tmnxPkiCRLBeforeExpWarning, tmnxPkiCRLAfterExpWarning, tmnxPkiCRLExpWarningCleared, tmnxSecNotifFileReloaded, tmnxSysLicenseValid, tmnxSecPwdHistoryFileLoadFailed, tmnxSecPwdHistoryFileWriteFailed, tmnxPkiCAProfCrlUpdateStart, tmnxPkiCAProfCrlUpdateSuccess, tmnxPkiCAProfCrlUpdateUrlFail, tmnxPkiCAProfCrlUpdAllUrlsFail, tmnxPkiFileWriteFailed, tmnxPkiCAProfCrlUpdNoNxtUpdTime, tmnxUsrProfSessionLimitExceeded, tmnxCliGroupSessionLimitExceeded, tmnxPkiCAProfCrlUpdLargPreUpdTm, tmnxPkiCertNotYetValid, tmnxPkiCRLNotYetValid, tmnxAppPkiCertVerificationFailed, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts, tmnxSysLicenseActivated, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, radiusUserProfileInvalid, tmnxSysStandbyLicensingError, tmnxSysStandbyLicensingReady, md_cli_io, md_cli_unauth_io, tmnxSysAppLicenseInsufficient, tmnxSysLicenseUpdateRequired, netconf_auth, netconf_unauth, grpc_auth, grpc_unauth, tmnxCertKeyPairGen, tmnxCertImport, tmnxCertExport, tmnxFileDeleted, tmnxFileMoved, tmnxFileCopied, tmnxFileUnzip, tmnxPasswordHashingChanged, tmnxUserPasswordChangedByAdmin, tmnxSSHSessionFailed, tmnxSecSignedSwCpmBootEvent, tSecSgndSwUefiVarsUpdtReqd, tmnxPkiCertUpdUpdateStarted, tmnxPkiCertUpdUpdateFinished, tmnxPkiCertUpdUpdateFailed, tmnxSystemPasswordChangedByAdmin, tmnxSysLicenseCleared, tmnxSysLicensingStateOk, tmnxPkiCertChainCompareCaNoMatch, ssh_auth_key_gen, ssh_auth_key_synch_fail, tmnxSSHListeningPortChanged, tmnxTelnetListeningPortChanged, tmnxSSHListeningPortOccupied, tmnxTelnetListeningPortOccupied, tmnxSSHListeningPortInUse, tmnxTelnetListeningPortInUse, tmnxSysSwDSValidationResult, tacplusUserProfileInvalid, tmnxSSHInvalidPacketLength, tmnxSecureBootDisabledAlarm

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger security event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger security event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger security event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger security event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger security event *keyword* entry *number* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger security event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger security event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger security event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger security event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger security event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger security event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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snmp event *keyword*

Synopsis	Enter the **snmp** list instance
Context	**configure** log event-trigger snmp event *keyword*
Tree	snmp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger snmp event *keyword*
Tree	snmp
Options	coldStart, warmStart, authenticationFailure, linkDown, linkUp, risingAlarm, fallingAlarm, hcRisingAlarm, hcFallingAlarm, snmpdError
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger snmp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger snmp event *keyword* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger snmp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger snmp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger snmp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context

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Context	**configure** log event-trigger snmp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger snmp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger snmp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger snmp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger snmp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger snmp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-mpls event *keyword*

Synopsis	Enter the **sr-mpls** list instance
Context	**configure** log event-trigger sr-mpls event *keyword*
Tree	sr-mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	SR MPLS event

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Context	**configure** log event-trigger sr-mpls event *keyword*
Tree	sr-mpls
Options	tmnxSrMplsPfxSidFailure, tmnxSrMplsPfxSidFlexAlgoFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger sr-mpls event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger sr-mpls event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger sr-mpls event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy event *keyword*

Synopsis	Enter the **sr-policy** list instance
Context	**configure** log event-trigger sr-policy event *keyword*
Tree	sr-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Events for SR policy module
Context	**configure** log event-trigger sr-policy event *keyword*
Tree	sr-policy
Options	vRtrSrPathIsCandPathOperChanged, vRtrSrPlcyPathActiveStateChanged
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger sr-policy event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger sr-policy event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger sr-policy event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger sr-policy event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry

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Context	**configure** log event-trigger sr-policy event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger sr-policy event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger sr-policy event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger sr-policy event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log event-trigger sr-policy event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger sr-policy event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger sr-policy event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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stp event *keyword*

Synopsis	Enter the **stp** list instance
Context	**configure** log event-trigger stp event *keyword*
Tree	stp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger stp event *keyword*
Tree	stp
Options	topologyChangeSapMajorState, newRootSap, topologyChangeVcpState, newRootVcpState, topologyChangeSapState, receivedTCN, newRootBridge, unacknowledgedTCN, higherPriorityBridge, sapEncapPVST, sapEncapDot1d, tmnxSvcTopoChgSdpBindMajorState, tmnxSvcNewRootSdpBind, tmnxSvcTopoChgSdpBindState, tmnxSvcSdpBindRcvdTCN, tmnxSvcSdpBindRcvdHigherBriPrio, tmnxSvcSdpBindEncapPVST, tmnxSvcSdpBindEncapDot1d, tmnxNewCistRegionalRootBridge, tmnxNewMstiRegionalRootBridge, tmnxStpRootGuardViolation, tmnxStpMeshNotInMstRegion, tmnxSapStpExcepCondStateChng, tmnxSdpBndStpExcepCondStateChng, sapActiveProtocolChange, tmnxSvcSdpActiveProtocolChange, vcpActiveProtocolChange, topologyChangePipMajorState, topologyChangePipState, tmnxPipStpExcepCondStateChng, pipActiveProtocolChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger stp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger stp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger stp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger stp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger stp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger stp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger stp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger stp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger stp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger stp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger stp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

svcmgr event *keyword*

Synopsis	Enter the **svcmgr** list instance
Context	**configure** log event-trigger svcmgr event *keyword*

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Tree	svcmgr
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger svcmgr event *keyword*
Tree	svcmgr
Options	svcTlsMacPinningViolation, tmnxSubSlaacOverride, svcEvpnMplsMacMoveExceedNonBlock, svcTlsVxInstReplicatorChgd, svcArpHostOverride, svcEvpnMHEsEviDFStateChgd, svcEvpnMHEsIsidDFStateChgd, svcEvpnRcvdProtSrcMac, svcBgpEvpnBHDupMacAddrsDetected, svcEvpnEtreeBumLabelSysHiUsgSet, svcEvpnEtreeBumLabelSysHiUsgClr, svcVxlanEvpnMplsDestSysHiUsgSet, svcVxlanEvpnMplsDestSysHiUsgClr, svcStatusChanged, svcTlsFdbTableFullAlarmRaised, svcTlsFdbTableFullAlarmCleared, svcSysEvpnESDfPrefOperValChange, tmnxSvcSysFdbTableHighUsgSet, iesIfStatusChanged, tmnxEndPointTxActiveChanged, tmnxSvcSysFdbTableHighUsgClr, svcEvpnVxVTepLclBiasAddFailSet, svcEvpnESVxVTepLclBiasAddFailSet, svcEvpnVxVTepLclBiasAddFailClr, svcEvpnESVxVTepLclBiasAddFailClr, svcEvpnRcvdPbbProtSrcMac, svcTlsMrpAttrRegistrationFailed, svcTlsMrpAttrTblFullAlarmRaised, svcTlsMrpAttrTblFullAlarmCleared, svcEvpnMplsTEPEgrLblStateChgd, svcEpipePbbOperStatusChanged, svcTlsVxInstVTEPEgrVniStateChgd, svcEvpnVxInstESDstTEPStateChgd, svcSrv6InstTEPSidOperStateChgd, svcSrv6InstESDstTEPOperStateChgd, svcEvpnMplsESDestTEPStateChgd, svcBgpEvpnTepStateChgd, svcSrv6FunctionOutOfResources, sapStatusChanged, sapTlsMacAddrLimitAlarmRaised, sapTlsMacAddrLimitAlarmCleared, hostConnectivityLost, hostConnectivityRestored, sapReceivedProtSrcMac, sapTlsMacMoveExceeded, sapPortStateChangeProcessed, sapCemPacketDefectAlarm, sapCemPacketDefectAlarmClear, msapStateChanged, msapCreationFailure, sapTlsMacMoveExceedNonBlock, sapEthLoopbackStarted, sapEthLoopbackStopped, sapTunnelEncapIpMtuTooSmall, tmnxIpTunnelOperStateChange, sapIfIgnorePortStateStart, sapIfIgnorePortStateStop, sapReceivedPbbProtSrcMac, sdpStatusChanged, sdpBindStatusChanged, sdpKeepAliveStarted, sdpKeepAliveStopped, sdpKeepAliveProbeFailure, sdpKeepAliveLateReply, sdpTlsMacAddrLimitAlarmRaised, sdpTlsMacAddrLimitAlarmCleared, sdpBindPwPeerStatusBitsChanged, sdpBindTlsMacMoveExceeded, sdpBindPwPeerFaultAddrChanged, sdpBindSdpStateChangeProcessed, sdpBandwidthOverbooked, sdpBindInsufficientBandwidth, dynamicSdpConfigChanged, dynamicSdpBindConfigChanged, dynamicSdpCreationFailed, dynamicSdpBindCreationFailed, sdpEgrIfsNetDomInconsCntChanged, sdpBindIpipeCeIpAddressChange, sdpBindReceivedProtSrcMac, sdpBindPwLocalStatusBitsChanged, sdpBindTlsMacMoveExceedNonBlock, sdpBindEthLoopbackStarted, sdpBindEthLoopbackStopped, sdpPbbActvPwWithNonActvCtrlPwChg, svcBgpEvpnDupMacAddrsDetected,

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svcBgpEvpnDupMacAddrsCleared, svcTlsVTEPHiUsageAlarmRaised, svcTlsVTEPHiUsageAlarmCleared, svcTlsVTEPEgrVniSysHiUsgAlarmSet, svcTlsVTEPEgrVniSysHiUsgAlarmClr, svcTlsVTEPEgrVniSvcHiUsgAlarmSet, svcTlsVTEPEgrVniSvcHiUsgAlarmClr, svcBindSysHiUsageAlarmRaised, svcBindSysHiUsageAlarmCleared, sdpControlPwActiveStateChg, svcTlsProxyArpDupDetect, svcTlsProxyArpDupClear, svcTlsProxyNdDupDetect, svcTlsProxyNdDupClear, svcTlsEvpnTunnNHopHiUsgAlarmSet, svcTlsEvpnTunnNHopHiUsgAlarmClr, svcEvpnMplsTEPHiUsageRaised, svcEvpnMplsTEPHiUsageCleared, svcEvpnMplsTEPEgrBndSysHiUsgSet, svcEvpnMplsTEPEgrBndSysHiUsgClr, svcEvpnMplsTEPEgrBndSvcHiUsgSet, svcEvpnMplsTEPEgrBndSvcHiUsgClr, svcTlsProxyArpSysHiUsgSet, svcTlsProxyArpSysHiUsgClr, svcTlsProxyArpSvcHiUsgSet, svcTlsProxyArpSvcHiUsgClr, svcTlsProxyNdSysHiUsgSet, svcTlsProxyNdSysHiUsgClr, svcTlsProxyNdSvcHiUsgSet, svcTlsProxyNdSvcHiUsgClr, svcSiteMinDnTimerStateChg, sdpBindReceivedPbbProtSrcMac, svcSrv6TEPHiUsageRaised, svcSrv6TEPHiUsageCleared, svcTlsMfibTableFullAlarmRaised, svcTlsMfibTableFullAlarmCleared, tmnxSubscriberCreated, tmnxSubscriberDeleted, tmnxSubscriberRenamed, tmnxSubAcctPlcyFailure, tmnxSubMcsRelatedProblem, tmnxSubAuthPlcyRadSerOperStatChg, tmnxSubAcctPlcyRadSerOperStatChg, svcEndPointMacLimitAlarmRaised, svcEndPointMacLimitAlarmCleared, tmnxSubRadSapDisconnectError, tmnxSubRadSdpBndDisconnectError, tmnxSubRadSapCoAError, tmnxSubRadSdpBndCoAError, tmnxSubRadSapSubAuthError, tmnxSubRadSdpBndSubAuthError, svcFdbMimDestTblFullAlrm, svcFdbMimDestTblFullAlrmCleared, svcPersistencyProblem, svcArpHostPopulateErr, svcEPMCEPConfigMismatch, svcEPMCEPConfigMismatchResolved, svcEPMCEPPassiveModeActive, svcEPMCEPPassiveModePassive, sapHostBGPPeeringSetupFailed, tmnxSubUserCategoryOutOfCredit, svcRestoreHostProblem, tmnxSubUserCategoryRefreshCredit, tmnxSubUserCategoryError, svcTlsSiteDesigFwdrChg, sapTlsDataSapInstStatusChgd, svcTlsGroupOperStatusChanged, sapTunnelStateChange, tmnxSubHostInconsistentAtmTdOvr, svcMSPwRtMisconfig, svcOperGrpOperStatusChanged, sapIpipeCeIpAddrChange, svcMSPwRetryExpiredNotif, svcVllSiteDesigFwdrChg, tmnxSubSlaacSetupFailure, tmnxIpTunnelOperRemIpChg, tmnxSubHostLcktLimitReached, tmnxSubHostLcktSapLimitReached, tmnxSubSysChassMemoryUsageHi, tmnxSubVSubnetHostsDeleted, sapHostRipListenerSetupFailed, tmnxSubIpoeInvalidSessionKey, tmnxSubIpoeInvalidCidRidChange, tmnxSubIpoeSessionLimitReached, tmnxSubIpoePersistenceRecovery, tmnxSubIpoeMigrHostDeleted, tmnxSubMngdHostCreationFail, tmnxSubMngdHostOverride, tmnxSubHostInfoConflict, tmnxSubPlBndFailed, tmnxSubBrgCreated, tmnxSubBrgDeleted, tmnxSubBrgCvInitFailed, tmnxSubBrgRadiusUpdateIpoeSeFail, tmnxSubBrgRadiusCoaError, tmnxSubBrgRadiusAuthError, tmnxSubBrgSessionLimitReached, tmnxSubStatsResourceLimitReached, tmnxSubDhcpOverloadDetected, aluIpTransportStateChanged, tmnxSubBrgRadiusProxyAuthError, tmnxSubIpoeSessionBrgNotAuth, tmnxSubRadiusCoaNatFwdFailed, tmnxSubSVlanStatsReachedMaximum, svcTlsVxInstMacAdrLimitAlrmRsd, svcTlsVxInstMacAdrLimitAlrmClrd, tmnxSubCupsUpSapCreationFailed, tmnxSubCupsUpIfCreationFailed, tmnxPfcpAssocPathMgmtStateChgd, tmnxSubInfoEgrAggRateLimitLowReq, tmnxSubIpoeWppRegistrationFailed,

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svcEvpnMplsTEPIpSysHiUsgSet, svcEvpnMplsTEPIpSysHiUsgClr, svcEvpnMHAutoEsiCreated, svcEvpnMHAutoEsiConflict, svcSrv6TEPEgrBndSysHiUsgSet, svcSrv6TEPEgrBndSysHiUsgClr, svcIfSubForwardingStatsDisNotify, svcIfSubForwardingStatsEnNotify, svcRoutedVplsEvpnGWDrStateChgd, svcSrv6TEPEgrBndSvcHiUsgSet, svcSrv6TEPEgrBndSvcHiUsgClr, tmnxSapMRtCpeChkStatusChange, svcEvpnMplsMldpESLblHiUsgSet, svcEvpnMplsMldpESLblHiUsgClr, svcTlsProxyArpUnauthorizedIP, svcTlsProxyNdUnauthorizedIP, svcRvplsEvpnMcastDestSysHiUsgSet, svcRvplsEvpnMcastDestSysHiUsgClr, tmnxSubPysrosExec, tmnxSubPysrosExecFail, svcEvpnVxInstMHStandbyStatusChg, sapCemAsymDelayControlEventStart, sapCemAsymDelayControlEventStop, sapCemActMultPathStateChg

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

admin-state *keyword*

Synopsis Administrative state of the EHS event trigger

Context **configure** log event-trigger svcmgr event *keyword* admin-state *keyword*

Tree admin-state

Options enable, disable

Default disable

Introduced 25.3.R2

Platforms SAR Gen 2

description *description*

Synopsis Text description

Context **configure** log event-trigger svcmgr event *keyword* description *description*

Tree description

String length 1 to 80

String format 'string-not-all-spaces' must contain at least one non-space character

Introduced 25.3.R2

Platforms SAR Gen 2

entry [id] *number*

Synopsis Enter the **entry** list instance

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Context	**configure** log event-trigger svcmgr event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger svcmgr event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

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time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* filter *reference*
Tree	filter

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Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger svcmgr event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

system event *keyword*

Synopsis	Enter the **system** list instance
Context	**configure** log event-trigger system event *keyword*
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger system event *keyword*
Tree	system
Options	stiDateAndTimeChanged, ssiSaveConfigSucceeded, ssiSaveConfigFailed, sbiBootConfig, sbiBootSnmpd, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, tmnxModuleMallocFailed, tmnxTrapDropped, ssiSyncConfigOK, ssiSyncConfigFailed, ssiSyncBootEnvOK, ssiSyncBootEnvFailed, socket_bind_failed, socket_conn_accept_failed, sntpTimeDiffExceedsThreshold,

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tmnxSssiMismatch, tmnxSnmpdStateChange, tmnxRedStandbySyncing, tmnxRedStandbyReady, tmnxRedStandbySyncLost, tmnxRedSwitchover, tmnxRedCpmActive, tmnxRedSingleCpm, persistencyClosedAlarmRaised, persistencyClosedAlarmCleared, tmnxSntpOperChange, tmnxFtpClientFailure, persistencyEventReport, sbiBootConfigFailFileError, sbiBootConfigOKFileError, persistenceRestoreProblem, tmnxSysRollbackStarted, tmnxSysRollbackStatusChange, tmnxSysRollbackSaveStatusChange, tmnxSysRollbackFileDeleteStatus, ssiSyncRollbackOK, ssiSyncRollbackFailed, ssiSyncCertOK, ssiSyncCertFailed, persistencyFileSysThresRaised, persistencyFileSysThresCleared, tmnxSysExecStarted, tmnxSysExecFinished, tmnxSysRollbackSaveStarted, tmnxSysRollbackDeleteStarted, tmnxSysNvsysFileError, tmnxConfigConflict, tmnxSysBaseMacAddressNotSet, tmnxSmLaunchStartFailed, tmnxEhsHandlerInvoked, tmnxEhsDroppedByMinDelay, tmnxSysAppStats24HrsAvailable, tmnxSysAppStatsWeekAvailable, tmnxSysMgmtIfModeChangeStart, tmnxSysMgmtIfModeChangeComplete, tmnxSysMgmtIfModeChangeFailure, tmnxSysMgmtIfLiIncorrectFormat, tmnxSysMgmtIfLiCfgNotEncrypted, stiDateAndTimeChanging, tmnxSysSwFabFailRecStarted, tmnxSysSwFabFailRecCompleted, tmnxSysSwFabFailRecAborted, tmnxSysSwFabFailRecDetected, tMirrorLiXIfLicenseInvalid, mdSaveCommitHistoryFailed, sbiBootMdReadCommitHistoryFailed, tmnxSysDyingGasp, tmnxSysHttpRdrOutOfSeqLimitExc, schedActionFailure, smScriptAbort, smScriptResult, smScriptException, ssiSaveIncrementConfigSucceeded, ssiSaveIncrementConfigFailed, ssiSaveBackgroundConfigSucceeded, ssiSaveBackgroundConfigFailed, tmnxLastSystemRebootAdmin, mdCommitInProgress, mdCommitSucceeded, tmnxSysNtcnfListenPortOccupied, tmnxSysNtcnfListenOperStateChngd, tmnxSysNtcnfSessionDropped

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger system event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger system event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger system event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger system event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger system event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger system event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger system event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger system event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger system event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger system event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger system event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

tls event *keyword*

Synopsis	Enter the **tls** list instance
Context	**configure** log event-trigger tls event *keyword*
Tree	tls
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger tls event *keyword*
Tree	tls
Options	tmnxTlsInitiateSession, tmnxTlsTermination, tmnxTlsFailure, tmnxTlsSANCheckStatus
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger tls event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger tls event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger tls event *keyword* entry *number*
Tree	entry

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger tls event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger tls event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger tls event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger tls event *keyword* entry *number* debounce time *number*

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Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger tls event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger tls event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger tls event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.

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Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger tls event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

user event *keyword*

Synopsis	Enter the **user** list instance
Context	**configure** log event-trigger user event *keyword*
Tree	user
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger user event *keyword*
Tree	user
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, cli_user_io, snmp_user_set, cli_config_io, cli_unauth_user_io, cli_unauth_config_io, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger user event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger user event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger user event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger user event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger user event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger user event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger user event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger user event *keyword* entry *number* debounce value *number*

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Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger user event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger user event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger user event *keyword* entry *number* handler *reference*
Tree	handler

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Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp event *keyword*

Synopsis	Enter the **vrrp** list instance
Context	**configure** log event-trigger vrrp event *keyword*
Tree	vrrp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger vrrp event *keyword*
Tree	vrrp
Options	vrrpTrapNewMaster, vrrpTrapAuthFailure, tmnxVrrpIPListMismatch, tmnxVrrpIPListMismatchClear, tmnxVrrpMultipleOwners, tmnxVrrpBecameBackup, vrrpPacketDiscarded, tmnxVrrpBfdIntfSessStateChgd, vrrpTrapProtoError, tVrrpBecameBackup, tVrrpTrapNewMaster, tVrrpIPListMismatch, tVrrpIPListMismatchClear, tVrrpMultipleOwners, tVrrpPacketDiscarded, tVrrpRouterAdvNotActivated, tVrrpRouterAdvNotActivatedClear, tVrrpOperDownInvalidMac, tVrrpOperDownInvalidMacClear, tmnxVrrpOperDownInvalidMac, tmnxVrrpOperDownInvalidMacClear
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger vrrp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger vrrp event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger vrrp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger vrrp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger vrrp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger vrrp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger vrrp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger vrrp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** log event-trigger vrrp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger vrrp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger vrrp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

vrtr event *keyword*

Synopsis	Enter the **vrtr** list instance
Context	**configure** log event-trigger vrtr event *keyword*

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Tree	vrtr
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger vrtr event *keyword*
Tree	vrtr
Options	tmnxVRtrMidRouteTCA, tmnxVRtrHighRouteTCA, tmnxVRtrHighRouteCleared, tmnxVRtrMcastMidRouteTCA, tmnxVRtrMcastMaxRoutesTCA, tmnxVRtrMcastMaxRoutesCleared, tmnxVRtrMaxArpEntriesTCA, tmnxVRtrMaxArpEntriesCleared, tmnxVRtrMaxRoutes, tmnxVRtrBfdMaxSessionOnSlot, tmnxVRtrBfdPortTypeNotSupported, tmnxVRtrIPv6MidRouteTCA, tmnxVRtrIPv6HighRouteTCA, tmnxVRtrIPv6HighRouteCleared, tmnxVRtrStaticRouteCPEStatus, tmnxVRtrManagedRouteAddFailed, tmnxVRtrFibOccupancyThreshold, tmnxVRtrInetAddressAttachFailed, tmnxVRtrSingleSfmOverloadStateCh, tmnxVRtrGrtExportLimitReached, tmnxVRtrGrtRoutesExpLimitDropped, tmnxVRtrIfLdpSyncTimerStart, tmnxVRtrIfLdpSyncTimerStop, tmnxVRtrGrtV6ExportLimitReached, tmnxVRtrGrtV6RoutesExpLimDropped, tmnxVRtrStaticRouteStatusChanged, tmnxVRtrBfdSessExtDown, tmnxVRtrBfdSessExtUp, tmnxVRtrBfdSessExtDeleted, tmnxVRtrBfdSessExtProtChange, tmnxVRtrBfdExtNoCpmNpResources, tmnxVRtrDnsFault, tmnxVRtrMacAcctLimitReached, tmnxVRtrMacAcctLimitCleared, tmnxVRtrNgBfdSessDown, tmnxVRtrNgBfdSessUp, tmnxVRtrNgBfdSessDeleted, tmnxVRtrNgBfdSessProtChange, tmnxVRtrNgBfdNoCpmNpResources, tmnxVRtrNHRvplsARPHighUsage, tmnxVRtrNHRvplsARPExhaust, tmnxVRtrNHRvplsARPHighUsageClr, tmnxVRtrArpLmt, tmnxVRtrArpThresholdExceeded, tmnxVRtrIpv6NbrLmt, tmnxVRtrIpv6NbrThresholdExceeded, tmnxVRtrIfIgnorePortState, tmnxVRtrPdnAddrMismatch, tmnxVRtrPdnAddrMismatchCleared, tmnxVRtrLeakExportLimitReached, tmnxVRtrLeakExportLimitDropped, tmnxVRtrDhcpClientStatusChanged, tmnxVRtrDhcp6ClientStatusChanged, tmnxVRtrNeDiscovered, tmnxVRtrNeRemoved, tmnxVRtrNeModified, vRtrIfDhcpClRtStatusChanged, vRtrIfDhcpClStateDnsChanged, vRtrAutoCfgRaRtStatusChanged, vRtrIfDhcp6ClStateDnsChanged, tipNbrAllocFailed, vRtrIfEthLoopbackStarted, vRtrIfEthLoopbackStopped, tmnxVRtrBfdExtNoFreeTxIntrvlSlot, tmnxVRtrFibVPNOccupancyThreshold, tmnxVRtrBfdMultiHopFpMismatch, vRtrBgpInstanceError, vrtrIfIpTunnelOperStateChange, tmnxVRtrBfdExtModifTxIntrvl
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger vrtr event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger vrtr event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger vrtr event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger vrtr event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger vrtr event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger vrtr event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger vrtr event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger vrtr event *keyword* entry *number* debounce value *number*

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Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger vrtr event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger vrtr event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger vrtr event *keyword* entry *number* handler *reference*
Tree	handler

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Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

wlan-gw event *keyword*

Synopsis	Enter the **wlan-gw** list instance
Context	**configure** log event-trigger wlan-gw event *keyword*
Tree	wlan-gw
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger wlan-gw event *keyword*
Tree	wlan-gw
Options	tmnxWlanGwResrcProblemDetected, tmnxWlanGwResrcProblemCause, tmnxWlanGwTuQosProblem, tmnxWlanGwGrpOperStateChanged, tmnxWlanGwIomActive, tmnxWlanGwMgwConnected, tmnxWlanGwMgwRestarted, tmnxWlanGwNumMgwHi, tmnxWlanGwMgwStateChanged, tmnxWlanGwQosRadiusGtpMismatch, tmnxWlanGwSubIfRedActiveChanged, tmnxWlanGwDsmGtpTunnelSetupFail, tmnxWlanGwSubIfPmStartD6cFailed, tmnxWlanGwSubIfPmNewPlReqFailed, tmnxWlanGwSubIfPmAddNewPlFailed, tmnxWlanGwSubIfPmCrIntObjFailed, tmnxWlanGwSubIfPmPoolTimeout, tmnxWlanGwSubIfPmPoolUsageLow, tmnxWlanGwSubIfPmLsQryRtryFailed, tmnxWlanGwGtpMessageDropped, tmnxWlanGwSubIfPmPoolPartialUse, tmnxWlanGwBdCreated, tmnxWlanGwBdDeleted, tmnxWlanGwUeCreationFail, tmnxWlanGwUeReplacement, tmnxWlanGwGrpMemberUsageHigh
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger wlan-gw event *keyword* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger wlan-gw event *keyword* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger wlan-gw event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

wpp event *keyword*

Synopsis	Enter the **wpp** list instance
Context	**configure** log event-trigger wpp event *keyword*
Tree	wpp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log event-trigger wpp event *keyword*
Tree	wpp
Options	tmnxWppPortalStatChanged, tmnxWppHostAuthenticationFailed, tmnxWppPortalUnreachable, tmnxWppPortalGroupStatChanged, tmnxWppPGHostAuthFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger
Context	**configure** log event-trigger wpp event *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger wpp event *keyword* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** log event-trigger wpp event *keyword* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of the EHS event trigger entry
Context	**configure** log event-trigger wpp event *keyword* entry *number*
Tree	entry
Range	1 to 1500
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EHS event trigger entry
Context	**configure** log event-trigger wpp event *keyword* entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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debounce

Synopsis	Enter the **debounce** context
Context	**configure** log event-trigger wpp event *keyword* entry *number* debounce
Tree	debounce
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time window for events for EHS to trigger a response
Context	**configure** log event-trigger wpp event *keyword* entry *number* debounce time *number*
Tree	time
Range	1 to 604800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Occurrences in time interval to trigger EHS response
Context	**configure** log event-trigger wpp event *keyword* entry *number* debounce value *number*
Tree	value
Range	2 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log event-trigger wpp event *keyword* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter *reference*

Synopsis	Log filter for EHS event trigger entry
Context	**configure** log event-trigger wpp event *keyword* entry *number* filter *reference*
Tree	filter
Description	This command configures the log filter to be used for this trigger entry. The log filter defines the matching criteria that must be met for the log event to trigger the handler execution. The log filter is applied to the log event and, if the filtering decision results in a forward action, the handler is triggered. It is typically unnecessary to configure match criteria for the application or number in the log filter used for EHS because the particular filter is only applied for a specific log event application and number, as configured under the **configure log event-trigger** context.
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler *reference*

Synopsis	Event handler for EHS event trigger entry
Context	**configure** log event-trigger wpp event *keyword* entry *number* handler *reference*
Tree	handler
Reference	**configure** log event-handling handler *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

file [file-policy-name] *file-policy-name*

Synopsis	Enter the **file** list instance
Context	**configure** log file *file-policy-name*
Tree	file
Max. instances	99
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**file-policy-name**] *file-policy-name*

Synopsis	File ID for a log or accounting file
Context	**configure** log file *file-policy-name*
Tree	file
Description	This command specifies the identification name or number for a log or accounting file. If the name begins with a numerical digit (from 1 to 9), the name must be a number from 1 to 99.
String length	1 to 64
String format	'file-policy-name' must be numeric 1..99 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

compact-flash-location

Synopsis	Enter the **compact-flash-location** context
Context	**configure** log file *file-policy-name* compact-flash-location
Tree	compact-flash-location
Introduced	25.3.R2
Platforms	SAR Gen 2

backup *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Log file location
Context	**configure** log file *file-policy-name* compact-flash-location backup *keyword*
Tree	backup
Options	cf-unspecified, cf1, cf2, cf3, cf4
Default	cf-unspecified
Introduced	25.3.R2
Platforms	SAR Gen 2

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primary *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Log file location
Context	**configure** log file *file-policy-name* compact-flash-location primary *keyword*
Tree	primary
Options	cf-unspecified, cf1, cf2, cf3, cf4
Default	cf-unspecified
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log file *file-policy-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

retention *number*

Synopsis	Minimum time that a file is retained on the media
Context	**configure** log file *file-policy-name* retention *number*
Tree	retention
Range	1 to 500
Units	hours
Default	12
Introduced	25.3.R2
Platforms	SAR Gen 2

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rollover *number*

Synopsis	Frequency at which a new log or accounting file is created
Context	**configure** log file *file-policy-name* rollover *number*
Tree	rollover
Range	5 to 10080
Units	minutes
Default	1440
Introduced	25.3.R2
Platforms	SAR Gen 2

file-storage-control

Synopsis	Enter the **file-storage-control** context
Context	**configure** log file-storage-control
Tree	file-storage-control
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-files-total-size *number*

Synopsis	Per CF total accounting file storage limit
Context	**configure** log file-storage-control accounting-files-total-size *number*
Tree	accounting-files-total-size
Description	This command configures the limit for the total space that all accounting files can occupy on each storage device on the active CPM. When this threshold is reached, new accounting files are no longer created in the \act-collect directory of the storage device until SR OS removes older accounting files from the \act directory and the occupancy is below the limit. Currently open, in-progress accounting files in the \act-collect directory are not affected by this limit and are completed. When unconfigured, there is no specific limit for the total size of all accounting files. Only accounting files in the \act directory with system generated names (including no file extension) are applicable toward the total size limit. If a user manually adds or deletes accounting files from the \act directory, the size of the files is not taken into account for up to 1 hour.

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The configured total size limit is not validated against the actual size of the installed storage devices. If the configured limit is larger than the installed compact flash (CF) device, the limit is never reached.

Range	50 to 4194304
Units	megabytes
Introduced	25.3.R2
Platforms	SAR Gen 2

log-files-total-size *number*

Synopsis	Per CF total log file storage limit
Context	**configure** log file-storage-control log-files-total-size *number*
Tree	log-files-total-size
Description	This command configures the limit for the total space that all log files can occupy on each storage device on the active CPM. When this threshold is reached, log events are no longer written to the files in the \log directory until SR OS removes older log files and the occupancy is below the limit. When unconfigured, there is no specific limit for the total size of all log files. Only log files in the \log directory with system generated names (including no file extension) are applicable toward the total size limit. If a user manually adds or deletes log files from the \log directory, the size of the files is not taken into account for up to 1 hour. The configured total size limit is not validated against the actual size of the installed storage devices. If the configured limit is larger than the installed CF device, the limit is never reached.
Range	50 to 4194304
Units	megabytes
Introduced	25.3.R2
Platforms	SAR Gen 2

filter [filter-name] *log-filter-name*

Synopsis	Enter the **filter** list instance
Context	**configure** log filter *log-filter-name*
Tree	filter
Max. instances	1500
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**filter-name**] *log-filter-name*

Synopsis	Filter name
Context	**configure** log filter *log-filter-name*
Tree	filter
String length	1 to 64
String format	'log-filter-name' must be numeric 1..1500 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Default action for the event filter
Context	**configure** log filter *log-filter-name* default-action *keyword*
Tree	default-action
Options	drop, forward
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log filter *log-filter-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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named-entry [entry-name] *log-filter-entry-name*

Synopsis	Enter the **named-entry** list instance
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name*
Tree	named-entry
Description	Commands in this context create or edit an event filter entry.
Max. instances	999
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-name**] *log-filter-entry-name*

Synopsis	Entry name
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name*
Tree	named-entry
String length	1 to 64
String format	'log-filter-entry-name' must be numeric 1..999 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action for this event filter entry
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* action *keyword*
Tree	action
Options	drop, forward
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

application

Synopsis	Enter the **application** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match application
Tree	application
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *keyword*

Synopsis	Application to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match application eq *keyword*
Tree	eq
Options	application-assurance, aps, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, dot1x, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, pppoe, ptp, rip, route-policy, rsvp,

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	security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, python, ripng, openflow, sflow, rpki, pcep, calltrace, satellite, ldap, pppoe-clnt, tls, adp, mgmt-core, macsec, sr-policy, pcap, auto-prov, bier, pfcp, tree-sid, srv6, sr-mpls, anysec
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *keyword*

Synopsis	Application to be filtered out
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match application neq *keyword*
Tree	neq
Options	application-assurance, aps, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, dot1x, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, python, ripng, openflow, sflow, rpki, pcep, calltrace, satellite, ldap, pppoe-clnt, tls, adp, mgmt-core, macsec, sr-policy, pcap, auto-prov, bier, pfcp, tree-sid, srv6, sr-mpls, anysec
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event

Synopsis	Enter the **event** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event
Tree	event
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Log event message to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event eq *number*

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Tree	eq
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Number of the log event to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event gt *number*
Tree	gt
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gte *number*

Synopsis	Number of the log event to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event gte *number*
Tree	gte
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Number of the log event to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event lt *number*
Tree	lt
Range	1 to 4294967295

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Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lte *number*

Synopsis	Number of the log event to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event lte *number*
Tree	lte
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *number*

Synopsis	Log event message to filter out
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match event neq *number*
Tree	neq
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

message

Synopsis	Enter the **message** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match message
Tree	message
Introduced	25.3.R2
Platforms	SAR Gen 2

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eq *string*

Synopsis	Log event message to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match message eq *string*
Tree	eq
String length	1 to 400
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *string*

Synopsis	Log event message to be filtered out
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match message neq *string*
Tree	neq
String length	1 to 400
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

regexp *boolean*

Synopsis	String comparison to determine if the log event matches the value of pattern
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match message regexp *boolean*
Tree	regexp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity

Synopsis	Enter the **severity** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity

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Tree	severity
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *keyword*

Synopsis	Log event severity level to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity eq *keyword*
Tree	eq
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *keyword*

Synopsis	Log event severity level
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity gt *keyword*
Tree	gt
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gte *keyword*

Synopsis	Log event severity level
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity gte *keyword*
Tree	gte
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lt *keyword*

Synopsis	Log event severity level
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity lt *keyword*
Tree	lt
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lte *keyword*

Synopsis	Log event severity level
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity lte *keyword*
Tree	lte
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *keyword*

Synopsis	Log event severity level to filter out
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match severity neq *keyword*
Tree	neq
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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subject

Synopsis	Enter the **subject** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match subject
Tree	subject
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *named-item*

Synopsis	Log event subject string to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match subject eq *named-item*
Tree	eq
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *named-item*

Synopsis	Log event subject string to filter out
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match subject neq *named-item*
Tree	neq
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

regexp *boolean*

Synopsis	String comparison to determine if the log event matches the value of subject

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Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match subject regexp *boolean*
Tree	regexp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vrtr-name

Synopsis	Enter the **vrtr-name** context
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match vrtr-name
Tree	vrtr-name
Description	Commands in this context configure the criteria for the name of a router instance. The vrtr-name is a name for a router instance, in a special format, used in the logging system. Examples of names include Base and vprn101, where 101 is the service ID of the VPRN service. The name represents the router instance that generated the log event.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *named-item*

Synopsis	Log event router instance to match
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match vrtr-name eq *named-item*
Tree	eq
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *named-item*

Synopsis	Log event router instance to filter out
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match vrtr-name neq *named-item*

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Tree	neq
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

regexp *boolean*

Synopsis	Match the router instance string
Context	**configure** log filter *log-filter-name* named-entry *log-filter-entry-name* match vrtr-name regexp *boolean*
Tree	regexp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

log-events

Synopsis	Enter the **log-events** context
Context	**configure** log log-events
Tree	log-events
Introduced	25.3.R2
Platforms	SAR Gen 2

adp event *keyword*

Synopsis	Enter the **adp** list instance
Context	**configure** log log-events adp event *keyword*
Tree	adp
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events adp event *keyword*
Tree	adp
Options	tmnxDiscoveryEndNotify, tmnxDiscoveryCellularReq
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events adp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events adp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events adp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events adp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events adp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events adp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events adp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2

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Platforms	SAR Gen 2

auto-prov event *keyword*

Synopsis	Enter the **auto-prov** list instance
Context	**configure** log log-events auto-prov event *keyword*
Tree	auto-prov
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events auto-prov event *keyword*
Tree	auto-prov
Options	autoNodeProv
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events auto-prov event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events auto-prov event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events auto-prov event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events auto-prov event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events auto-prov event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events auto-prov event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000

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Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events auto-prov event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd event *keyword*

Synopsis	Enter the **bfd** list instance
Context	**configure** log log-events bfd event *keyword*
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events bfd event *keyword*
Tree	bfd
Options	tmnxBfdOnLspSessDown, tmnxBfdOnLspSessUp, tmnxBfdOnLspSessDeleted, tmnxBfdOnLspSessProtChange, tmnxBfdOnLspSessNoCpmNpResources, tmnxBfdOnLspSessNoTailResources, tmnxBfdOnLspExtSessDown, tmnxBfdOnLspExtSessUp, tmnxBfdOnLspExtSessDeleted, tmnxBfdOnLspExtSessProtChange, tmnxBfdOnLspExtSessNoCpmNpResrcs
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events bfd event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events bfd event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events bfd event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events bfd event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events bfd event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events bfd event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events bfd event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp event *keyword*

Synopsis	Enter the **bgp** list instance
Context	**configure** log log-events bgp event *keyword*
Tree	bgp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events bgp event *keyword*
Tree	bgp
Options	sendNotification, receiveNotification, bgpInterfaceDown, bgpConnNoKA, bgpConnNoOpenRcvd, bgpRejectConnBadLocAddr, bgpRemoteEndClosedConn, bgpPeerNotFound, bgpConnMgrTerminated, bgpTerminated, bgpNoMemoryPeer, bgpVariableRangeViolation, bgpCfgViol, tBgpPeerGRStatusChange, tBgpNgEstablished, tBgpNgBackwardTransition, tBgpPeerNgHoldTimeInconsistent, tBgpFlowspecUnsupportdComAction, tBgp4RouteInvalid, tBgp4PathAttrInvalid, tBgp4WithdrawnRtFromUpdateError, tBgp4UpdateInvalid, tBgpGeneral, tBgpFibResourceFailPeer, tBgpReceivedInvalidNlri, tBgpMaxNgPfxLmt, tBgpMaxNgPfxLmtThresholdReached, tBgpInstanceDynamicPeerLmtReachd, tBgpPGDynamicPeerLmtReached, bgpEstablishedNotification, bgpBackwardTransNotification, tBgp4PathAttrDiscarded, tmnxBmpSessionStatusChange, tBgpInstConvStateTransition, tBgpPeerNgGRStatusChange, tBgpPGDynNbrIfMaxSessLmtReachd
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events bgp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events bgp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events bgp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters that throttle this specific event
Context	**configure** log log-events bgp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events bgp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events bgp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2

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Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events bgp event *keyword* throttle *boolean*
Tree	throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

chassis event *keyword*

Synopsis	Enter the **chassis** list instance
Context	**configure** log log-events chassis event *keyword*
Tree	chassis
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events chassis event *keyword*
Tree	chassis
Options	tmnxEqCardFailure, tmnxEqCardInserted, tmnxEqCardRemoved, tmnxEqWrongCard, tmnxEnvTempTooHigh, tmnxEqPowerSupplyInserted, tmnxEqPowerSupplyRemoved, tmnxRedPrimaryCPMFail, tmnxChassisNotificationClear, tmnxEqSyncIfTimingHoldover, tmnxEqSyncIfTimingHoldoverClear, tmnxEqSyncIfTimingRef1Alarm, tmnxEqSyncIfTimingRef1AlarmClear, tmnxEqSyncIfTimingRef2Alarm, tmnxEqSyncIfTimingRef2AlarmClear, tmnxEqFlashDataLoss, tmnxEqFlashDiskFull, tmnxPeSoftwareVersionMismatch, tmnxPeSoftwareLoadFailed, tmnxPeBootloaderVersionMismatch, tmnxPeBootromVersionMismatch, tmnxPeFPGAVersionMismatch, tmnxEqSyncIfTimingBITSAlarm, tmnxEqSyncIfTimingBITSAlarmClear, tmnxEqCardFirmwareUpgraded, tmnxChassisUpgradeInProgress, tmnxChassisUpgradeComplete, tmnxChassisHiBwMcastAlarm, tmnxEqOperStateChange, tmnxEqMdaCfgNotCompatible, tmnxCpmCardSyncFileNotPresent, tmnxEqMdaXplError, tmnxEqCardPChipError, tmnxEqCardSoftResetAlarm, tmnxEqMdaSyncENotCompatible, tmnxIPsecIsaGrpActiveIsaChgd, tmnxEqCardPChipMemoryEvent, tmnxIPsecIsaGrpUnableToSwitch, tmnxIPsecIsaGrpTnlLowWMark, tmnxIPsecIsaGrpTnlHighWMark, tmnxIPsecIsaGrpTnlMax, tmnxEqSyncIfTimingRef1Quality,

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tmnxEqSyncIfTimingRef2Quality, tmnxEqSyncIfTimingBITSQuality,
tmnxEqSyncIfTimingBITS2Quality, tmnxEqSyncIfTimingRefSwitch,
tmnxEqSyncIfTimingBITS2Alarm, tmnxEqSyncIfTimingBITS2AlarmClr,
tmnxEqSyncIfTimingBITSOutRefChg, tmnxEqCardPChipCamEvent,
tmnxEqSyncIfTimingSystemQuality, tmnxEqHwEnhancedCapability,
tmnxEqSyncIfTimingPTPQuality, tmnxEqSyncIfTimingPTPAlarm,
tmnxEqSyncIfTimingPTPAlarmClr, tmnxPeFirmwareVersionWarning,
tmnxMDAIsaTunnelGroupChange, tmnxEqPowerCapacityExceeded,
tmnxEqPowerCapacityExceededClear, tmnxEqPowerLostCapacity,
tmnxEqPowerLostCapacityClear, tmnxEqPowerOverloadState,
tmnxEqPowerOverloadStateClear, tmnxEqCardQChipBufMemoryEvent,
tmnxEqCardQChipStatsMemoryEvent, tmnxEqCardQChipIntMemoryEvent,
tmnxEqCardChipIfDownEvent, tmnxEqCardChipIfCellEvent,
tmnxEqLowSwitchFabricCap, tmnxEqLowSwitchFabricCapClear,
tmnxEqPowerSafetyAlertThreshold, tmnxEqPowerSafetyAlertClear,
tmnxEqPowerSafetyLevelThreshold, tmnxEqPowerSafetyLevelClear,
tmnxEqCardTChipParityEvent, tmnxEqProvPowerCapacityAlm,
tmnxEqProvPowerCapacityAlmClr, tmnxPlcyAcctStatsPoolExcResource,
tmnxPlcyAcctStatsPoolLowResource, tmnxPlcyAcctStatsEventOvrflwClr,
tmnxPlcyAcctStatsEventOvrflw, tmnxIomResHighLimitReached,
tmnxIomResExhausted, tmnxIomResStateClr, tmnxIomEventOverflow,
tmnxIomEventOverflowClr, tmnxEqDataPathFailureProtImpact,
tmnxExtStandbyCpmReboot, tmnxExtStandbyCpmRebootFail,
tmnxEqMdaIngrXplError, tmnxSyncIfTimBITS2048khzUnsup,
tmnxSyncIfTimBITS2048khzUnsupClr, tmnxEqMgmtEthRedStandbyRaise,
tmnxEqMgmtEthRedStandbyClear, tmnxEqPhysChassPowerSupOvrTmp,
tmnxEqPhysChassPowerSupOvrTmpClr, tmnxEqPhysChassPowerSupAcFail,
tmnxEqPhysChassPowerSupAcFailClr, tmnxEqPhysChassPowerSupDcFail,
tmnxEqPhysChassPowerSupDcFailClr, tmnxEqPhysChassPowerSupInFail,
tmnxEqPhysChassPowerSupInFailClr, tmnxEqPhysChassPowerSupOutFail,
tmnxEqPhysChassPowerSupOutFailCl, tmnxEqPhysChassisFanFailure,
tmnxEqPhysChassisFanFailureClear, tIPsecIsaMemLowWatermark,
tIPsecIsaMemHighWatermark, tIPsecIsaMemMax, tmnxCpmMemSizeMismatch,
tmnxCpmMemSizeMismatchClear, tmnxPhysChassPwrSupWrgFanDir,
tmnxPhysChassPwrSupWrgFanDirClr, tmnxPhysChassPwrSupPemACRect,
tmnxPhysChassPwrSupPemACRectClr, tmnxPhysChassPwrSupInputFeed,
tmnxPhysChassPwrSupInputFeedClr, tmnxEqBpEpromFail,
tmnxEqBpEpromFailClear, tmnxEqBpEpromWarning, tmnxEqBpEpromWarningClear,
tmnxPhysChassisPCMInputFeed, tmnxPhysChassisPCMInputFeedClr,
tmnxIPMacQosIngOverload, tmnxIPMacQosIngOverloadClear,
tmnxIPQosEgrOverload, tmnxIPQosEgrOverloadClear, tmnxIPv6QosIngOverload,
tmnxIPv6QosIngOverloadClear, tmnxIPv6QosEgrOverload,
tmnxIPv6QosEgrOverloadClear, tmnxIPMacFilterIngOverload,
tmnxIPMacFilterIngOverloadClear, tmnxIPMacFilterEgrOverload,
tmnxIPMacFilterEgrOverloadClear, tmnxIPv6FilterIngOverload,
tmnxIPv6FilterIngOverloadClear, tmnxIPv6FilterEgrOverload,
tmnxIPv6FilterEgrOverloadClear, tmnxIPMacCpmFilterOverload,
tmnxIPMacCpmFilterOverloadClear, tmnxIPv6CpmFilterOverload,
tmnxIPv6CpmFilterOverloadClear, tmnxGnssAcquiringFix, tmnxGnssAcquiredFix,
tmnxPhysChassisPMOutFail, tmnxPhysChassisPMOutFailClr,
tmnxPhysChassisPMInputFeed, tmnxPhysChassisPMInputFeedClr,

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tmnxPhysChassisFilterDoorOpen, tmnxPhysChassisFilterDoorClosed,
tmnxPhysChassisPMOverTemp, tmnxPhysChassisPMOverTempClr,
tmnxEqFpgaSoftError, tmnxEqSyncIfTimingSyncEQuality,
tmnxEqSyncIfTimingSyncE2Quality, tmnxEqSyncIfTimingSyncEAlarm,
tmnxEqSyncIfTimingSyncEAlarmClr, tmnxEqSyncIfTimingSyncE2Alarm,
tmnxEqSyncIfTimingSyncE2AlarmClr, tmnxEqHwEventDetected,
tmnxTunnelGrpEsaVmActivity, tmnxEsaDiscovered, tmnxEsaConnected,
tmnxEsaDisconnected, tmnxEsaFailure, tmnxEsaCleared,
tmnxEsaVmCreated, tmnxEsaVmBooted, tmnxEsaVmRemoved,
tmnxEsaVmCleared, tmnxEsaVmFailure, tIPsecEsaVmMemLowWatermark,
tIPsecEsaVmMemHighWatermark, tmnxPeKernelVersionMismatch,
tmnxFPResourcePolicyModified, tmnxFPResourcePolicyModifiedClr,
tmnxEqSyncIfTimingGnssQuality, tmnxEqSyncIfTimingGnss2Quality,
tmnxEqSyncIfTimingGnssAlarm, tmnxEqSyncIfTimingGnss2Alarm,
tmnxEqSyncIfTimingGnssAlarmClr, tmnxEqSyncIfTimingGnss2AlarmClr,
tmnxEsaFirmwareUpgradeStarted, tmnxPlcyAcctPlcrPoolExcResource,
tmnxPlcyAcctPlcrPoolLowResource, tChassisAirflowDirMismatch,
tChassisAirflowDirMismatchClr, tChassisPowerSupplyMismatch,
tChassisPowerSupplyMismatchClr, tChassisPowerSupplyUnsup,
tmnxHwAggShpSchedEventOvrflwClr, tmnxHwAggShpSchedEventOvrflw,
tmnxFPResOversubscribed, tmnxFPResOversubscribedCleared,
tmnxIPMacFilterIngNearFull, tmnxIPMacFilterIngNearFullClear,
tmnxIPMacFilterEgrNearFull, tmnxIPMacFilterEgrNearFullClear,
tmnxIPv6FilterIngNearFull, tmnxIPv6FilterIngNearFullClear, tmnxIPv6FilterEgrNearFull,
tmnxIPv6FilterEgrNearFullClear, tmnxEsaStolenTimeDetected,
tmnxEsaHwStatusDegraded, tmnxEsaHwStatusDegradedClr,
tmnxEsaHwStatusCritical, tmnxEsaHwStatusCriticalClr, tmnxEsaHwPwrSup1Degraded,
tmnxEsaHwPwrSup1DegradedClr, tmnxEsaHwPwrSup1Failed,
tmnxEsaHwPwrSup1FailedClr, tmnxEsaHwPwrSup2Degraded,
tmnxEsaHwPwrSup2DegradedClr, tmnxEsaHwPwrSup2Failed,
tmnxEsaHwPwrSup2FailedClr, tmnxEsaHwFanBankNonRedun,
tmnxEsaHwFanBankNonRedunClr, tmnxEsaHwFanBankFailRedun,
tmnxEsaHwFanBankFailRedunClr, tmnxEsaHwFanStatusDegraded,
tmnxEsaHwFanStatusDegradedClr, tmnxEsaHwFanStatusFailed,
tmnxEsaHwFanStatusFailedClr, tmnxEsaHwPwrSupMismatch,
tmnxEsaHwPwrSupMismatchClr, tmnxEsaHwPwrSupBankNonRedun,
tmnxEsaHwPwrSupBankNonRedunClr, tmnxEsaHwPwrSupBankFailRedun,
tmnxEsaHwPwrSupBankFailRedunClr, tmnxEsaHwTemperatureDegraded,
tmnxEsaHwTemperatureDegradedClr, tmnxEsaHwTemperatureFailed,
tmnxEsaHwTemperatureFailedClr, tmnxPowerSupplyFanFailed,
tmnxPowerSupplyFanFailedClear, tmnxIxrResourceHighUsage,
tmnxIxrResourceExhausted, tmnxIxrResourceRecovered,
tmnxIxrResourceHighUsageByOwner, tmnxIxrResourceExhaustedByOwner,
tmnxIxrResourceRecoveredByOwner, tmnxSasAlarminput1StateChanged,
tmnxSasAlarminput2StateChanged, tmnxSasAlarminput3StateChanged,
tmnxSasAlarminput4StateChanged, tmnxAlarmInputVoltageFailure,
tmnxIomRsrcUsageHighLimitReached, tmnxIomRsrcUsageExhausted,
tmnxIomRsrcUsageRecovered, tmnxIomRsrcEventOverflow,
tmnxIomRsrcEventOverflowClr, tmnxIomRsrcOwnerOversubscribed,
tmnxIomRsrcOwnerOversubscrbdClr, tmnxInterChassisCommsDown,
tmnxInterChassisCommsUp, tmnxCpmIcPortDown, tmnxCpmIcPortUp,

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tmnxCpmIcPortSFFInserted, tmnxCpmIcPortSFFRemoved, tmnxCpmANoLocalIcPort, tmnxCpmBNoLocalIcPort, tmnxCpmALocalIcPortAvail, tmnxCpmBLocalIcPortAvail, CpmIcPortSFFStatusFailure, CpmIcPortSFFStatusDDMCorrupt, CpmIcPortSFFStatusReadError, CpmIcPortSFFStatusUnsupported, tmnxCpmIcPortDDMFailure, tmnxCpmIcPortDDMClear, tmnxSfmIcPortDown, tmnxSfmIcPortUp, tmnxSfmIcPortSFFInserted, tmnxSfmIcPortSFFRemoved, SfmIcPortSFFStatusFailure, SfmIcPortSFFStatusDDMCorrupt, SfmIcPortSFFStatusReadError, SfmIcPortSFFStatusUnsupported, tmnxSfmIcPortDDMFailure, tmnxSfmIcPortDDMClear, tmnxSfmIcPortDegraded, tmnxSfmIcPortDegradedClear, tmnxCardResMacFdbHighUsgSet, tmnxCardResMacFdbHighUsgClr, tmnxPowerShelfInputPwrModeSwitch, tmnxPowerShelfCommsDown, tmnxPowerShelfCommsUp, tmnxPowerShelfOutputStatusSwitch, tmnxPowerShelfOutputStatusDown, tmnxPowerShelfOutputStatusUp, tmnxEqCardMissing, tmnxEqCardMissingClear, tmnxEqEsaHostPortCrcAlarm, tmnxEqEsaHostPortCrcAlarmClear, tmnxEsaFirmwareUpgradeInProgress, tmnxEsaFirmwareUpgradeDone, tmnxEsaFirmwareUpgradeFailed, tmnxChassisAntiTheftModeBoot, tmnxChassisAntiTheftUnlocked, tmnxEqLowPowerSwFabModeEnabled, tmnxEqLowPowerSwFabModeDisabled, tmnxChassisGoldenStatusEvent, tmnxEqFlashDiskFormatStart, tmnxEqFlashDiskFormatFinish, tmnxEsaColdRebooted, tmnxChassisAntiTheftMismatch, tmnxChassisAntiTheftMismatchClr

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events chassis event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events chassis event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events chassis event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events chassis event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events chassis event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events chassis event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events chassis event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

debug event *keyword*

Synopsis	Enter the **debug** list instance
Context	**configure** log log-events debug event *keyword*
Tree	debug
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events debug event *keyword*
Tree	debug
Options	traceEvent
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events debug event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events debug event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events debug event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events debug event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events debug event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events debug event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events debug event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp event *keyword*

Synopsis	Enter the **dhcp** list instance
Context	**configure** log log-events dhcp event *keyword*
Tree	dhcp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events dhcp event *keyword*
Tree	dhcp
Options	svcDHCPLseStateRestoreProblem, sapDHCPLeaseEntriesExceeded, sapDHCPLseStateOverride, sapDHCPSuspiciousPcktRcvd, sapDHCPLseStatePopulateErr, sdpBindDHCPLeaseEntriesExceeded, sdpBindDHCPLseStateOverride, sdpBindDHCPSuspiciousPcktRcvd, sdpBindDHCPLseStatePopulateErr, tmnxVRtrDHCPSuspiciousPcktRcvd,

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	sapStaticHostDynMacConflict, sapDHCPProxyServerError, tmnxVRtrDHCPIfLseStatesExceeded, sdpBindDHCPProxyServerError, tmnxVRtrDHCP6RelayLseStExceeded, tmnxVRtrDHCP6ServerLseStExceeded, tmnxVRtrDHCP6LseStateOverride, tmnxVRtrDHCP6RelayReplyStripUni, tmnxVRtrDHCP6IllegalClientAddr, tmnxVRtrDHCP6AssignedIllegSubnet, tmnxVRtrDHCP6ClientMacUnresolved, sapDHCPLseStateMobilityError, sdpBindDHCPLseStateMobilityErr, svcDHCPMiscellaneousProblem, sapStatHost6DynMacConflict
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events dhcp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events dhcp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events dhcp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events dhcp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events dhcp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events dhcp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events dhcp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2

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Platforms	SAR Gen 2

dhcps event *keyword*

Synopsis	Enter the **dhcps** list instance
Context	**configure** log log-events dhcps event *keyword*
Tree	dhcps
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events dhcps event *keyword*
Tree	dhcps
Options	tmnxDhcpSvrSubnetMinFreeExc, tmnxDhcpSvrHostConflict, tmnxDhcpSvrPoolUnknown, tmnxDhcpSvrLeaseNotOwner, tmnxDhcpSvrDeclineStaticAddr, tmnxDhcpSvrMsgTooLong, tmnxDhcpsFoStateChange, tmnxDhcpsFoLeaseUpdateFailed, tmnxDhcpSvrUserDbUnknown, tmnxDhcpSvrMaxLeasesReached, tmnxDhcpSvrNoSubnetFixAddr, tmnxDhcpSvrLeaseDefaultTimers, tmnxDhcpSvrPoolMinFreeExc, tmnxDhcpSvrSubnetDepleted, tmnxDhcpSvrPoolDepleted, tmnxDhcpSvrIntLseConflict, tmnxDhcpSvrLeaseModify, tmnxDhcpSvrLeaseCreate, tmnxDhcpSvrLeaseDelete, tmnxLudbDhcpGroupIfTooLong, tmnxLudbPppoeGroupIfTooLong, tmnxDhcpSvrNoContFreeBlocks, tmnxDhcpsPoolFoStateChange, tmnxDhcpsPoolFoLeaseUpdateFailed, tmnxDhcpSvrPlThTooLowV6, tmnxDhcpSvrPlThDepletedV6, tmnxDhcpSvrPfxThTooLowV6, tmnxDhcpSvrPfxThDepletedV6, tmnxDhcpsLeaseOfferedExpired, tmnxDhcpsAddrAllocationFailure, tmnxDhcpsPacketDropped
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events dhcps event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2

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Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events dhcps event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events dhcps event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events dhcps event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events dhcps event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events dhcps event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events dhcps event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

diameter event *keyword*

Synopsis	Enter the **diameter** list instance
Context	**configure** log log-events diameter event *keyword*
Tree	diameter
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events diameter event *keyword*
Tree	diameter

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Options	tmnxDiamPolicyPeerStateChange, tmnxDiamAppSessionFailure, tmnxDiamSessionEvent, tmnxDiamPpPrxMcLocStateChanged, tmnxDiamMessageDropped, tmnxDiamNdPeerStatActiveChanged
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events diameter event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events diameter event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events diameter event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event

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Context	**configure** log log-events diameter event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events diameter event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events diameter event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events diameter event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dot1x event *keyword*

Synopsis	Enter the **dot1x** list instance
Context	**configure** log log-events dot1x event *keyword*
Tree	dot1x
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Events for dynsvc module
Context	**configure** log log-events dot1x event *keyword*
Tree	dot1x
Options	alxDot1xHostAuthEvent
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events dot1x event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events dot1x event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events dot1x event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events dot1x event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events dot1x event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events dot1x event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events dot1x event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynsvc event *keyword*

Synopsis	Enter the **dynsvc** list instance
Context	**configure** log log-events dynsvc event *keyword*
Tree	dynsvc
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events dynsvc event *keyword*
Tree	dynsvc
Options	tmnxDynSvcSapFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events dynsvc event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events dynsvc event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events dynsvc event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events dynsvc event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events dynsvc event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events dynsvc event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events dynsvc event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

efm-oam event *keyword*

Synopsis	Enter the **efm-oam** list instance
Context	**configure** log log-events efm-oam event *keyword*
Tree	efm-oam
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events efm-oam event *keyword*
Tree	efm-oam
Options	tmnxDot3OamPeerChanged, tmnxDot3OamLoopDetected, tmnxDot3OamLoopCleared, dot3OamThresholdEvent, dot3OamNonThresholdEvent, tmnxDot3OamSdThresholdEvent, tmnxDot3OamThresholdEventClr, tmnxDot3OamNonThresholdEventClr

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events efm-oam event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events efm-oam event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events efm-oam event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events efm-oam event *keyword* specific-throttle *boolean*
Tree	specific-throttle

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events efm-oam event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events efm-oam event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events efm-oam event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ering event *keyword*

Synopsis	Enter the **ering** list instance

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Context	**configure** log log-events ering event *keyword*
Tree	ering
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ering event *keyword*
Tree	ering
Options	tmnxEthRingPathFwdStateChange, tmnxEthRingApsPrvsnRaiseAlarm, tmnxEthRingApsPrvsnClearAlarm
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ering event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ering event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ering event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ering event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ering event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ering event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ering event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm event *keyword*

Synopsis	Enter the **eth-cfm** list instance
Context	**configure** log log-events eth-cfm event *keyword*
Tree	eth-cfm
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events eth-cfm event *keyword*
Tree	eth-cfm
Options	dot1agCfmFaultAlarm, tmnxDot1agCfmMepLbmTestComplete, tmnxDot1agCfmMepLtmTestComplete, tmnxDot1agCfmMepEthTestComplete, tmnxDot1agCfmMepDMTestComplete, tmnxDot1agCfmMepAisStateChanged, tmnxDot1agCfmMipEvaluation, tmnxDot1agCfmMepSLMTestComplete, tmnxDot1agCfmMepCsfStateChanged, tmnxDot1agCfmMepFcltyFaultRaise, tmnxDot1agCfmMepFcltyFaultClear, tmnxDot1agCfmMepOperGrpStateChgd
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events eth-cfm event *keyword* generate *boolean*

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Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events eth-cfm event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events eth-cfm event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events eth-cfm event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events eth-cfm event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval

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Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events eth-cfm event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events eth-cfm event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

etun event *keyword*

Synopsis	Enter the **etun** list instance
Context	**configure** log log-events etun event *keyword*
Tree	etun
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers

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Context	**configure** log log-events etun event *keyword*
Tree	etun
Options	tmnxEthTunnelApsCfgRaiseAlarm, tmnxEthTunnelApsCfgClearAlarm, tmnxEthTunnelApsPrvsnRaiseAlarm, tmnxEthTunnelApsPrvsnClearAlarm, tmnxEthTunnelApsNoRspRaiseAlarm, tmnxEthTunnelApsNoRspClearAlarm, tmnxEthTunnelApsSwitchoverAlarm
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events etun event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events etun event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events etun event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events etun event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events etun event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events etun event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events etun event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2

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Platforms	SAR Gen 2

filter event *keyword*

Synopsis	Enter the **filter** list instance
Context	**configure** log log-events filter event *keyword*
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events filter event *keyword*
Tree	filter
Options	tIPFilterPBRPacketsDrop, tFilterSubInsSpaceAlarmRaised, tFilterSubInsSpaceAlarmCleared, tFilterSubInsFltrEntryDropped, tFilterBgpFlowSpecProblem, tFilterApplyPathProblem, tFilterRadSharedFltrAlarmRaised, tFilterRadSharedFltrAlarmClear, tFilterEmbeddingOperStateChange, tFilterEmbedFlowspecOperStateChg, tFilterRPActiveDestChangeEvent
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events filter event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events filter event *keyword* repeat *boolean*

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Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events filter event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events filter event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events filter event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged

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Context	**configure** log log-events filter event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events filter event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

gsmp event *keyword*

Synopsis	Enter the **gsmp** list instance
Context	**configure** log log-events gsmp event *keyword*
Tree	gsmp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events gsmp event *keyword*
Tree	gsmp
Options	tmnxAncpIngRateMonitorEvent, tmnxAncpIngRateMonitorEventL, tmnxAncpEgrRateMonitorEvent, tmnxAncpEgrRateMonitorEventL, tmnxAncpShcvDisabledEvent, tmnxAncpShcvDisabledEventL, tmnxAncpSesRejected, tmnxAncpStringRejected
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events gsmp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events gsmp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events gsmp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events gsmp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events gsmp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events gsmp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events gsmp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp event *keyword*

Synopsis	Enter the **igmp** list instance
Context	**configure** log log-events igmp event *keyword*
Tree	igmp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events igmp event *keyword*
Tree	igmp
Options	vRtrIgmpIfRxQueryVerMismatch, vRtrIgmpIfCModeRxQueryMismatch, vRtrIgmpMaxGrpsLimitExceeded, vRtrIgmpMcacPlcyDropped, vRtrIgmpHostInstantiationFail, vRtrIgmpHostMaxGrpsLimitExceeded, vRtrIgmpHostMcacPlcyDropped, vRtrIgmpHostCModeRxQueryMismatch, vRtrIgmpHostRxQueryVerMismatch, vRtrIgmpHostMaxSrcsLimitExceeded, vRtrIgmpMaxSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpsLimExceed, vRtrIgmpGrpIfSapMaxSrcsLimExceed, vRtrIgmpGrpIfSapMcacPlcyDropped, vRtrIgmpGrpIfSapCModeRxQueryMism, vRtrIgmpGrpIfSapRxQueryVerMism, vRtrIgmpHostMaxGrpSrcsLimitExcd, vRtrIgmpMaxGrpSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpSrcLimExcd, vRtrIgmpHostQryIntervalConflict, vRtrIgmpNotifyNumOfIPsecIfLowWm, vRtrIgmpNotifyNumOfIPsecIfHighWm, vRtrIgmpNotifyNumOfIPsecIfMaxRch, vRtrIgmpSlaProfInstMcacPlcyDrop
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events igmp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events igmp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events igmp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events igmp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events igmp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events igmp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000

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Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events igmp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp-snooping event *keyword*

Synopsis	Enter the **igmp-snooping** list instance
Context	**configure** log log-events igmp-snooping event *keyword*
Tree	igmp-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events igmp-snooping event *keyword*
Tree	igmp-snooping
Options	sapIgmpSnpgGrpLimitExceeded, sapIgmpSnpgMcacPlcyDropped, sdpBndIgmpSnpgGrpLimitExceeded, sdpBndIgmpSnpgMcacPlcyDropped, sapIgmpSnpgMcsFailure, sapIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgGrpSrcLimitExceed, sapIgmpSnpgGrpSrcLimitExceeded, eMplsIgmpSnpgMfibFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events igmp-snooping event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events igmp-snooping event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events igmp-snooping event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events igmp-snooping event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events igmp-snooping event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events igmp-snooping event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events igmp-snooping event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip event *keyword*

Synopsis	Enter the **ip** list instance
Context	**configure** log log-events ip event *keyword*
Tree	ip
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ip event *keyword*
Tree	ip
Options	clearRTMError, ipEtherBroadcast, ipDuplicateAddress, ipArpInfoOverwritten, fibAddFailed, qosNetworkPolicyMallocFailed, ipArpBadInterface, ipArpDuplicateIpAddress, ipArpDuplicateMacAddress, ipAnyDuplicateAddress, labelIndexAllocFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ip event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ip event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ip event *keyword* severity *keyword*

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Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ip event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ip event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ip event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type

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Context	**configure** log log-events ip event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec event *keyword*

Synopsis	Enter the **ipsec** list instance
Context	**configure** log log-events ipsec event *keyword*
Tree	ipsec
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ipsec event *keyword*
Tree	ipsec
Options	tIPsecRUTnlFailToCreate, tIPsecRUSAFailToAddRoute, tIPsecBfdIntfSessStateChgd, tIPsecRadAcctPlcyFailure, tIPSecTrustAnchorPrfOprChg, tIPsecTunnelEncapIpMtuTooSmall, tIPsecRuTnlEncapIpMtuTooSmall, tmnxSecNotifCmptedCertHashChngd, tmnxSecNotifCmptedCertChnChngd, tmnxSecNotifSendChnNotInCmptChn, tmnxIPsecTunnelOperStateChange, tmnxIPsecGWOperStateChange, tIPsecRUTnlRemoved, tIPsecTunnelProtocolFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ipsec event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ipsec event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ipsec event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ipsec event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ipsec event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ipsec event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ipsec event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

isis event *keyword*

Synopsis	Enter the **isis** list instance
Context	**configure** log log-events isis event *keyword*
Tree	isis
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events isis event *keyword*
Tree	isis
Options	vRtrIsisSpbNbrMultAdjExists, vRtrIsisSpbNbrMultAdjExistsClear, vRtrSpbEctFidCfgChg, tmnxIsisDatabaseOverload, tmnxIsisManualAddressDrops, tmnxIsisCorruptedLSPDetected, tmnxIsisMaxSeqExceedAttempt, tmnxIsisIDLenMismatch, tmnxIsisMaxAreaAddrsMismatch, tmnxIsisOwnLSPPurge, tmnxIsisSequenceNumberSkip, tmnxIsisAutTypeFail, tmnxIsisAuthFail,

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tmnxIsisVersionSkew, tmnxIsisAreaMismatch, tmnxIsisRejectedAdjacency, tmnxIsisLSPTooLargeToPropagate, tmnxIsisOrigLSPBufSizeMismatch, tmnxIsisProtoSuppMismatch, tmnxIsisAdjacencyChange, tmnxIsisCircIdExhausted, tmnxIsisAdjRestartStatusChange, tmnxIsisLdpSyncTimerStarted, tmnxIsisLdpSyncExit, tmnxIsisExportLimitReached, tmnxIsisExportLimitWarning, tmnxIsisRoutesExpLmtDropped, tmnxIsisFailureDisabled, tmnxIsisSidError, tmnxIsisSidNotInLabelRange, tmnxIsisRejectedAdjacencySid, tmnxIsisLSPPurge, tmnxIsisPfxLimitOverloadWarning, tmnxIsisAdjBfdSessionSetupFail, tmnxIsisSrgbBadLabelRange, tmnxIsisCircMtuTooLow, tmnxIsisRejectedAdjacencySet, tmnxIsisCorruptRemainingLifetime, tmnxIsisSidStatsIndexAlloc, tmnxIsisFaOperParticipationDown, tmnxIsisRejectedEndXSid, tmnxIsisRejectedPgId, tmnxIsisSrv6LocError, tmnxIsisSrv6StaticSidIfTypeError, tmnxIsisMultiPartTlvTruncated, tmnxIsisMultiPartTlvReceived

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events isis event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events isis event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events isis event *keyword* severity *keyword*
Tree	severity

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Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events isis event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events isis event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events isis event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events isis event *keyword* throttle *boolean*

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Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

lag event *keyword*

Synopsis	Enter the **lag** list instance
Context	**configure** log log-events lag event *keyword*
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events lag event *keyword*
Tree	lag
Options	DynamicCostOn, DynamicCostOff, LagPortAddFailed, LagSubGroupSelected, LagPortAddFailureCleared, LagStateEvent, tLagMemberStateEvent, tmnxLagBfdMemStateChanged, tLagAdaptiveLoadbalancingChanged
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events lag event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events lag event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events lag event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events lag event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events lag event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events lag event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events lag event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldap event *keyword*

Synopsis	Enter the **ldap** list instance
Context	**configure** log log-events ldap event *keyword*
Tree	ldap
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ldap event *keyword*
Tree	ldap
Options	tmnxLdapOperStateChange, tmnxLdapServerOperStateChange
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ldap event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ldap event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ldap event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ldap event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ldap event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ldap event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ldap event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp event *keyword*

Synopsis	Enter the **ldp** list instance
Context	**configure** log log-events ldp event *keyword*
Tree	ldp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ldp event *keyword*
Tree	ldp
Options	vRtrLdpStateChange, vRtrLdpGroupIdMismatch, vRtrLdpNgIpv4InstStateChange, vRtrLdpNgIpv6InstStateChange, vRtrLdpNgIfStateChange, vRtrLdpNgInetIfStateChange, vRtrLdpNgTargPeerStateChange, vRtrLdpNgSessionStateChange, vRtrLdpNgSessMaxFecThresChanged, vRtrLdpNgSessMaxFecLimitReached, vRtrLdpNgResourceExhaustion, vRtrLdpNgAddrFecCommMismatch
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ldp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ldp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type

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Context	**configure** log log-events ldp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ldp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ldp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ldp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events lldp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

lldp event *keyword*

Synopsis	Enter the **lldp** list instance
Context	**configure** log log-events lldp event *keyword*
Tree	lldp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events lldp event *keyword*
Tree	lldp
Options	lldpRemTablesChange, tmnxLldpRemEntryPeerAdded, tmnxLldpRemEntryPeerUpdated, tmnxLldpRemEntryPeerRemoved, tmnxLldpRemManAddrEntryAdded, tmnxLldpRemManAddrEntryRemoved
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events lldp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2

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Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events lldp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events lldp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events lldp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events lldp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events lldp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events lldp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

logger event *keyword*

Synopsis	Enter the **logger** list instance
Context	**configure** log log-events logger event *keyword*
Tree	logger
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events logger event *keyword*
Tree	logger

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Options	STARTED, tmnxLogTraceError, tmnxLogSpaceContention, tmnxLogAdminLocFailed, tmnxLogBackupLocFailed, tmnxLogFileRollover, tmnxLogFileDeleted, tmnxClear, tmnxTestEvent, tmnxLogEventThrottled, tmnxSysLogTargetProblem, tmnxLogAccountingDataLoss, tmnxStdEventsReplayed, tmnxLogOnlyEventThrottled, tmnxLogEventOverrun, tmnxLogOnlyEventOverrun, tmnxCustomEvent1, tmnxCustomEvent2, tmnxCustomEvent3, tmnxCustomEvent4, tmnxCustomEvent5, tmnxCustomEvent6, tmnxNetconfNotifyOverrun
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events logger event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events logger event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events logger event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events logger event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events logger event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events logger event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events logger event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2

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Platforms	SAR Gen 2

macsec event *keyword*

Synopsis	Enter the **macsec** list instance
Context	**configure** log log-events macsec event *keyword*
Tree	macsec
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events macsec event *keyword*
Tree	macsec
Options	tmnxMacsecConfiguredPortCA, tmnxMacsecUnconfiguredPortCA, tmnxMacsecEnabledPort, tmnxMacsecDisabledPort, tmnxMacsecMaxPeerLimitExceeded, tmnxMkaSessionEstablished, tmnxMkaPskRollover, tmnxMkaSessionEnded, tmnxMkaOperStateChanged, tmnxMacsecMaxPeerLimitCleared, tmnxMacsecCaCreate, tmnxMacsecSakCreate, tmnxMacsecSakInstalledRx, tmnxMacsecSakInstalledTx, tmnxMacsecMkaReplayAttemptDisc, tmnxMacsecDpReplayAttempt, tmnxMacsecSakDelete, tmnxMacsecPrimKeychainNoActKey, tmnxMacsecPrimKeychainHasActKey, tmnxMacsecRecovKeychainNoActKey, tmnxMacsecRecovKeychainHasActKey, tmnxMacsecConnAssocCreated, tmnxMacsecConnAssocDeleted
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events macsec event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events macsec event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events macsec event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events macsec event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events macsec event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events macsec event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events macsec event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-redundancy event *keyword*

Synopsis	Enter the **mc-redundancy** list instance
Context	**configure** log log-events mc-redundancy event *keyword*
Tree	mc-redundancy
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mc-redundancy event *keyword*
Tree	mc-redundancy
Options	tmnxMcRedundancyPeerStateChanged, tmnxMcRedundancyMismatchDetected, tmnxMcRedundancyMismatchResolved, tmnxMcPeerSyncStatusChanged, tmnxMcSyncClientAlarmRaised, tmnxMcSyncClientAlarmCleared, tmnxSrrpSubnetMismatch, tmnxSrrpSubnetMismatchCleared, tmnxSrrpInstanceIdMismatch, tmnxSrrpSapMismatch, tmnxSrrpSapTagMismatch,

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tmnxSrrpRedIfMismatch, tmnxSrrpDualMaster, tmnxMcLagInfoLagChanged, tmnxSrrpSystemIpNotSet, tmnxMcRingOperStateChanged, tmnxMcRingInbCtrlOperStateChgd, tmnxMcRingNodeLocOperStateChgd, tmnxMcSyncClockSkewRaised, tmnxMcSyncClockSkewCleared, tmnxSrrpDuplicateSubIfAddress, tmnxMcPeerRingsOperStateChanged, tmnxSrrpTrapNewMaster, tmnxSrrpBecameBackup, srrpPacketDiscarded, tmnxSrrpBfdIntfSessStateChgd, tmnxMcPeerEPBfdSessionOpen, tmnxMcPeerEPBfdSessionClose, tmnxMcPeerEPBfdSessionUp, tmnxMcPeerEPBfdSessionDown, tmnxMcPeerEPOperDown, tmnxMcPeerEPOperUp, tmnxMCEPSessionPsvModeEnabled, tmnxMCEPSessionPsvModeDisabled, tMcPeerIPsecTnlGrpMasterStateChg, tMcPeerIPsecTnlGrpProtStatusChg, tmnxMcOmcrStatFailedChanged, tmnxMcOmcrClientNumEntriesHigh, tmnxSrrpOperDownInvalidMac, tmnxSrrpOperDownInvalidMacClear, tmnxSrrpPrivRetailMismatch, tMcIPsecDomainActivityStateChg, tMcIpsecDomainProtStatusChg

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

generate *boolean*

Synopsis Generate log events when the event occurs

Context **configure** log log-events mc-redundancy event *keyword* generate *boolean*

Tree generate

Introduced 25.3.R2

Platforms SAR Gen 2

repeat *boolean*

Synopsis Repeat the log event until the condition is cleared

Context **configure** log log-events mc-redundancy event *keyword* repeat *boolean*

Tree repeat

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

severity *keyword*

Synopsis Severity level associated with event type

Context **configure** log log-events mc-redundancy event *keyword* severity *keyword*

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Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mc-redundancy event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mc-redundancy event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mc-redundancy event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mc-redundancy event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mcpath event *keyword*

Synopsis	Enter the **mcpath** list instance
Context	**configure** log log-events mcpath event *keyword*
Tree	mcpath
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mcpath event *keyword*
Tree	mcpath
Options	tmnxMcPathSrcGrpBlackHole, tmnxMcPathSrcGrpBlackHoleCleared, tmnxMcPathAvailBwLimitExceeded, tmnxMcPathAvailBwLimitCleared
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mcpath event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2

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Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mcpath event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mcpath event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mcpath event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mcpath event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mcpath event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mcpath event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mgmt-core event *keyword*

Synopsis	Enter the **mgmt-core** list instance
Context	**configure** log log-events mgmt-core event *keyword*
Tree	mgmt-core
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mgmt-core event *keyword*
Tree	mgmt-core

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Options	none, mdConfigChange, mdOcConfigChange, mdBofConfigChange, mdDebugConfigChange, asyncOperationStatusChange, syncOperationStatusChange, mdAutomaticRollbackFailed, mdRollbackFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mgmt-core event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mgmt-core event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mgmt-core event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event

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Context	**configure** log log-events mgmt-core event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mgmt-core event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mgmt-core event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mgmt-core event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mirror event *keyword*

Synopsis	Enter the **mirror** list instance
Context	**configure** log log-events mirror event *keyword*
Tree	mirror
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mirror event *keyword*
Tree	mirror
Options	sourceEnabled, sourceDisabled, destinationEnabled, destinationDisabled, sourceIpFilterChange, sourceMacFilterChange, sourceSapChange, sourceSubscriberChange, tMirrorSourceIpv6FilterChange, tMirrorSapUnavailSath, tMirrorSapUnavailSathClr, tMirrorFltrUnavailSath, tMirrorFltrUnavailSathClr, tMirrorPortUnavailSath, tMirrorPortUnavailSathClr
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mirror event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mirror event *keyword* repeat *boolean*
Tree	repeat
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mirror event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mirror event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mirror event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mirror event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit

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Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mirror event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mld event *keyword*

Synopsis	Enter the **mld** list instance
Context	**configure** log log-events mld event *keyword*
Tree	mld
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mld event *keyword*
Tree	mld
Options	vRtrMldIfRxQueryVerMismatch, vRtrMldIfCModeRxQueryMismatch, vRtrMldMaxGrpsLimitExceeded, vRtrMldMcacPlcyDropped, vRtrMldHostInstantiationFail, vRtrMldHostMaxGrpsLimitExceeded, vRtrMldHostMcacPlcyDropped, vRtrMldHostCModeRxQueryMismatch, vRtrMldHostRxQueryVerMismatch, vRtrMldHostMaxSrcsLimitExceeded, vRtrMldMaxSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpsLimExceed, vRtrMldGrpIfSapMaxSrcsLimExceed, vRtrMldGrpIfSapMcacPlcyDropped, vRtrMldGrpIfSapCModeRxQueryMism, vRtrMldGrpIfSapRxQueryVerMism, vRtrMldHostMaxGrpSrcsLimitExcd, vRtrMldMaxGrpSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpSrcLimExcd, vRtrMldHostQryIntervalConflict, vRtrMldSlaProfInstMcacPlcyDrop

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mld event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mld event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mld event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mld event *keyword* specific-throttle *boolean*
Tree	specific-throttle

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mld event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mld event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mld event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping event *keyword*

Synopsis	Enter the **mld-snooping** list instance

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Context	**configure** log log-events mld-snooping event *keyword*
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mld-snooping event *keyword*
Tree	mld-snooping
Options	sapMldSnpgGrpLimitExceeded, sdpBndMldSnpgGrpLimitExceeded, sapMldSnpgMcsFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mld-snooping event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mld-snooping event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mld-snooping event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mld-snooping event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mld-snooping event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mld-snooping event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mld-snooping event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls event *keyword*

Synopsis	Enter the **mpls** list instance
Context	**configure** log log-events mpls event *keyword*
Tree	mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mpls event *keyword*
Tree	mpls
Options	mplsXCUp, mplsXCDown, mplsTunnelUp, mplsTunnelDown, mplsTunnelRerouted, mplsTunnelReoptimized, vRtrMplsStateChange, vRtrMplsIfStateChange, vRtrMplsLspUp, vRtrMplsLspDown, vRtrMplsLspPathUp, vRtrMplsLspPathDown, vRtrMplsLspPathRerouted, vRtrMplsLspPathResignaled, vRtrMplsP2mpInstanceUp, vRtrMplsP2mpInstanceDown, vRtrMplsS2lSubLspUp, vRtrMplsS2lSubLspDown, vRtrMplsS2lSubLspRerouted, vRtrMplsS2lSubLspResignaled, vRtrMplsLspPathSoftPreempted, vRtrMplsLspPathLstFillReoptElig, vRtrMplsP2mpInstanceResignaled, vRtrMplsResignalTimerExpired, vRtrMplsLspPathMbbStatusEvent, vRtrMplsLspSwitchStbyFailure, vRtrMplsLspActivePathChanged, vRtrMplsXCBundleChange, vRtrMplsNodeInIgpOverload, vRtrMplsIPv6StateChange, vRtrMplsIfIPv6StateChange, vRtrMplsLspResourceExhaustion, vRtrMplsLspManualSwitchFailure, vRtrMplsLspPathManualDegStateChg, vRtrMplsS2lSubLspPreempted, vRtrMplsNodeInIgpOverloadIpv6, tmnxMplsResourceHighUsage, tmnxMplsResourceExhausted, tmnxMplsResourceRecovered, vRtrMplsLspContOptStarted, vRtrMplsLspContMaxLspsExceeded, vRtrMplsLspContMinLspsExceeded

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mpls event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mpls event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mpls event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mpls event *keyword* specific-throttle *boolean*
Tree	specific-throttle

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mpls event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mpls event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mpls event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls-tp event *keyword*

Synopsis	Enter the **mpls-tp** list instance

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Context	**configure** log log-events mpls-tp event *keyword*
Tree	mpls-tp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events mpls-tp event *keyword*
Tree	mpls-tp
Options	vRtrMplsTpLspRevertMismatchAlarm, vRtrMplsTpLspRevertMismatchClear, vRtrMplsTpLspPtTypeMismatchAlarm, vRtrMplsTpLspPtTypeMismatchClear, vRtrMplsTpLspActivePathUp, vRtrMplsTpLspActivePathChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events mpls-tp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events mpls-tp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events mpls-tp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events mpls-tp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events mpls-tp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events mpls-tp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events mpls-tp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat event *keyword*

Synopsis	Enter the **nat** list instance
Context	**configure** log log-events nat event *keyword*
Tree	nat
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events nat event *keyword*
Tree	nat
Options	tmnxNatPlL2AwBlockUsageHigh, tmnxNatIsaMemberSessionUsageHigh, tmnxNatPlLsnMemberBlockUsageHigh, tmnxNatL2AwSubIcmpPortUsageHigh, tmnxNatL2AwSubUdpPortUsageHigh, tmnxNatL2AwSubTcpPortUsageHigh, tmnxNatL2AwSubSessionUsageHigh, tmnxNatPlBlockAllocationLsn, tmnxNatPlBlockAllocationL2Aw, tmnxNatResourceProblemDetected, tmnxNatResourceProblemCause, tmnxNatPlAddrFree, tmnxNatPlLsnRedActiveChanged, tmnxNatPcpSrvStateChanged, tmnxNatMdaActive, tmnxNatLsnSubBlksFree, tmnxNatDetPlcyChanged, tmnxNatMdaDetectsLoadSharingErr, tmnxNatIsaGrpOperStateChanged, tmnxNatIsaGrpIsDegraded, tmnxNatLsnSubIcmpPortUsgHigh, tmnxNatLsnSubUdpPortUsgHigh, tmnxNatLsnSubTcpPortUsgHigh, tmnxNatLsnSubSessionUsgHigh, tmnxNatInAddrPrefixBlksFree, tmnxNatFwd2EntryAdded, tmnxNatFwd2OperStateChanged, tmnxNatVrtrOutDnatOnlyRoutesHigh, tmnxNatMapRuleChange, tmnxNatMaxNbrSubsOrHostsExceeded, tmnxNatNbrSubsOrHostsBelowThrsh, tmnxNatVappActive, tmnxNatVappDetectsLoadSharingErr, tmnxNatDetPfxMapOperStateChanged, tmnxNatDetMap2OperStateChanged, tmnxNatDynamicConfigMismatch, tmnxNatPlL2AwMembrBlockUsageHigh,

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	tmnxNatPlMemberExtBlockUsageHigh, tmnxNatPlLsnMemberPortUsageHigh, tmnxNatDetAddrMapOperStateChngd, tmnxNatVrtrOutRoutesHigh
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events nat event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events nat event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events nat event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event

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Context	**configure** log log-events nat event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events nat event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events nat event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events nat event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ntp event *keyword*

Synopsis	Enter the **ntp** list instance
Context	**configure** log log-events ntp event *keyword*
Tree	ntp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ntp event *keyword*
Tree	ntp
Options	tmnxNtpAuthMismatch, tmnxNtpNoServersAvail, tmnxNtpServersAvail, tmnxNtpOperChange, tmnxNtpServerChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ntp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ntp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ntp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ntp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ntp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ntp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ntp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

oam event *keyword*

Synopsis	Enter the **oam** list instance
Context	**configure** log log-events oam event *keyword*
Tree	oam
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events oam event *keyword*
Tree	oam
Options	tmnxOamPingProbeFailedV3, tmnxOamPingTestFailedV3, tmnxOamPingTestCompletedV3, tmnxAncpLoopbackTestCompleted, tmnxAncpLoopbackTestCompletedL, tmnxOamTrPathChange, tmnxOamTrTestFailed, tmnxOamTrTestCompleted, svcIdInvalid, svcIdWrongType, tmnxOamLdpTtraceAutoDiscState, tmnxOamLdpTtraceFecProbeState, tmnxOamLdpTtraceFecDisStatus, tmnxOamLdpTtraceFecPFailUpdate, tmnxOamSaaThreshold, tmnxOamDiagTestCompleted, tmnxTwampSrvInactivityTimeout, tmnxTwampSrvMaxConnsExceeded, tmnxTwampSrvPfxMaxConnsExceeded, tmnxTwampSrvMaxSessExceeded, tmnxTwampSrvPfxMaxSessExceeded, tmnxTwampRflInactivityTimeout, tmnxOamPmThrRaise, tmnxOamPmThrClear, tmnxOamSathSvcTestCompleted, tmnxOamSathSvcStrmCompleted
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events oam event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events oam event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events oam event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events oam event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events oam event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events oam event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events oam event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf event *keyword*

Synopsis	Enter the **ospf** list instance
Context	**configure** log log-events ospf event *keyword*
Tree	ospf
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ospf event *keyword*
Tree	ospf
Options	tmnxOspfVirtIfStateChange, tmnxOspfVirtNbrStateChange, tmnxOspfVirtIfConfigError, tmnxOspfVirtIfAuthFailure, tmnxOspfVirtIfRxBadPacket, tmnxOspfAreaOriginateLsa, tmnxOspfAreaMaxAgeLsa, tmnxOspfLsdbOverflow, tmnxOspfLsdbApproachingOverflow, tmnxOspfNssaTranslatorStatusChg, tmnxOspfRestartStatusChange, tmnxOspfVirtNbrRestartHlprStsChg, tmnxOspfSpfRunsStopped, tmnxOspfSpfRunsRestarted, tmnxOspfOverloadEntered, tmnxOspfOverloadExited, tmnxOspfAsOriginateLsa, tmnxOspfAsMaxAgeLsa, tmnxOspfShamIfStateChange, tmnxOspfShamNbrStateChange, tmnxOspfShamIfConfigError, tmnxOspfShamIfAuthFailure, tmnxOspfShamIfRxBadPacket, tmnxOspfShamNbrRestartHlprStsChg, tmnxOspfFailureDisabled, tmnxOspfExportLimitReached, tmnxOspfExportLimitWarning, tmnxOspfRoutesExpLmtDropped, tmnxOspfNgNbrStateChange, tmnxOspfNgIfConfigError, tmnxOspfNgIfAuthFailure, tmnxOspfNgIfRxBadPacket, tmnxOspfNgIfStateChange, tmnxOspfNgNbrRestartHlprStsChg, tmnxOspfNgLinkOriginateLsa, tmnxOspfNgLinkMaxAgeLsa, tmnxOspfNgLdpSyncTimerStarted, tmnxOspfNgLdpSyncExit, tmnxOspfSrSidError, tmnxOspfSrSidNotInLabelRange, tmnxOspfOverloadWarning, tmnxOspfRejectedAdjacencySid, tmnxOspfAdjBfdSessionSetupFail, tmnxOspfSrgbBadLabelRange, tmnxOspfRejectedAdjacencySet, tmnxOspfSidStatsIndexAlloc, tmnxOspfDynHostnameDuplicate, tmnxOspfDynHostnameInconsistent, tmnxOspfFaOperParticipationDown, tmnxOspfNgNbrStrictBfdBlocked
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ospf event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ospf event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ospf event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ospf event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ospf event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ospf event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ospf event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

pcap event *keyword*

Synopsis	Enter the **pcap** list instance
Context	**configure** log log-events pcap event *keyword*
Tree	pcap
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events pcap event *keyword*
Tree	pcap
Options	tmnxPcapFileError, tmnxPcapBufferFull, tmnxPcapBufferReadWriteFailure, tmnxPcapSoftwareFailure
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events pcap event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events pcap event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events pcap event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events pcap event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2

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Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events pcap event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events pcap event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events pcap event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

pcep event *keyword*

Synopsis	Enter the **pcep** list instance
Context	**configure** log log-events pcep event *keyword*

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Tree	pcep
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	PCEP module events
Context	**configure** log log-events pcep event *keyword*
Tree	pcep
Options	tmnxPcepPccPeerStateChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events pcep event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events pcep event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events pcep event *keyword* severity *keyword*

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Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events pcep event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events pcep event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events pcep event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type

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Context	**configure** log log-events pcep event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

pfcp event *keyword*

Synopsis	Enter the **pfcp** list instance
Context	**configure** log log-events pfcp event *keyword*
Tree	pfcp
Introduced	25.10.R1
Platforms	SAR Gen 2

event *keyword*

Synopsis	PFCP events
Context	**configure** log log-events pfcp event *keyword*
Tree	pfcp
Options	none, tmnxPfcpInvalidIe, tmnxPfcpNoSuchCalltraceProfile, tmnxPfcpNoSecondaryInterface
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events pfcp event *keyword* generate *boolean*
Tree	generate
Introduced	25.10.R1
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events pfcp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events pfcp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.10.R1
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events pfcp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.10.R1
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events pfcp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.10.R1
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events pfcp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.10.R1
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events pfcp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.10.R1
Platforms	SAR Gen 2

pim event *keyword*

Synopsis	Enter the **pim** list instance
Context	**configure** log log-events pim event *keyword*
Tree	pim
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events pim event *keyword*
Tree	pim
Options	vRtrPimNgIfNeighborLoss, vRtrPimNgIfNeighborUp, vRtrPimNgInvalidJoinPrune, vRtrPimNgInvalidRegister, vRtrPimNgGrpInSSMRange, vRtrPimNgBSRStateChange, vRtrPimNgHelloDropped, vRtrPimNgSGLimitExceeded, vRtrPimNgReplicationLmtExceeded, vRtrPimNgMDTLimitExceeded, vRtrPimNgMaxGrpsLimitExceeded, vRtrPimNgDataMtReused,

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	vRtrPimNgMcacPlcyDropped, vRtrPimNgInvalidIPmsiTunnel, vRtrPimNgMaxGraftRetry, vRtrPimNgBierInbInvSD, vRtrPimNgBierInbInvBfrId, vRtrPimNgUmhBMonFastFailPriToStb, vRtrPimNgUmhBMonFastFailStbToPri, vRtrPimNgInstMaxNbrReached, vRtrPimNgIfMaxNbrReached
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events pim event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events pim event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events pim event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events pim event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events pim event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events pim event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events pim event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2

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Platforms	SAR Gen 2

pim-snooping event *keyword*

Synopsis	Enter the **pim-snooping** list instance
Context	**configure** log log-events pim-snooping event *keyword*
Tree	pim-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events pim-snooping event *keyword*
Tree	pim-snooping
Options	tmnxPimSnpgIfNeighborLoss, tmnxPimSnpgIfNeighborUp, tmnxPimSnpgSGLimitExceeded, tmnxPimSnpgSnoopModeChanged, tmnxPimSnpgIfMaxNbrReached, tmnxPimSnpgMaxNbrReached
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events pim-snooping event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events pim-snooping event *keyword* repeat *boolean*
Tree	repeat
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events pim-snooping event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events pim-snooping event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events pim-snooping event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events pim-snooping event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit

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Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events pim-snooping event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

port event *keyword*

Synopsis	Enter the **port** list instance
Context	**configure** log log-events port event *keyword*
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events port event *keyword*
Tree	port
Options	sonetSDHAlarmSet, sonetSDHAlarmClear, sonetSDHChannelAlarmSet, sonetSDHChannelAlarmClear, SFPInserted, SFPRemoved, SFPStatusFailure, portError, ds3AlarmSet, ds3AlarmClear, ds1AlarmSet, ds1AlarmClear, etherAlarmSet, etherAlarmClear, ds1LoopbackStart, ds1LoopbackStop, ds3LoopbackStart, ds3LoopbackStop, sdhLoopbackStart, sdhLoopbackStop, etherLoopDetected, etherLoopCleared, etherSpeedNotCompatible, etherDuplexNotCompatible, etherIngressRateCfgNotCompatible, digitalDiagnosticMonitorFailed, SFPStatusDDMCorrupt, SFPStatusReadError, SFPStatusUnsupported, dsxClockSyncStateChange, tmnxPortUnsupportedFunction, otuAlarms, tPortAccEgrQGrpHostMatchFailure, tPortEgrVPortHostMatchFailure, digitalDiagnosticMonitorCleared, tmnxEqSonetClockSrcNotCompatible, tmnxEqSonetSfThreshNotCompatible, tmnxEqSonetFramingNotCompatible,

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tmnxResvCbsPoolThreshGreen, tmnxResvCbsPoolThreshAmber, tmnxResvCbsPoolThreshRed, tmnxEqPortEtherCrcAlarm, tmnxEqPortEtherCrcAlarmClear, tmnxEqPortEtherInternalAlarm, tmnxEqPortEtherInternalAlarmClr, tmnxEqCohOptPortAlarm, tmnxEqPortEtherSymMonAlarm, tmnxEqPortEtherSymMonAlarmClear, SFPStatusCulprit, SFPStatusBlocked, SFPStatusOperational, tmnxRS232ControlLeadSignalChg, tmnxRS232SquelchStatusChange, tmnxRS232SquelchResetIssued, tmnxCellularBearerCreated, tmnxCellularBearerDeleted, tmnxCellularBearerModified, tmnxEqPortEtherEgressRateChange, tmnxCellularNoServiceReset, tmnxCellularActiveSimChange, tmnxPortEtherLoopbackStarted, tmnxPortEtherLoopbackStopped, tmnxPortGnssStatusChange, tmnxWlanNetworkConnected, tmnxWlanNetworkDisconnected, tmnxPortAUIReset, tmnxCellPortCbsdRegistered, tmnxCellPortCbsdUnregistered, tmnxCellPortCbsdGranted, tmnxCellPortCbsdAuthorized, tmnxCellPortCbsdTransDown, tmnxHwAggShpSchedOperColorGreen, tmnxHwAggShpSchedOperColorAmber, tmnxHwAggShpSchedOperColorRed, tmnxCellularRssiAlarm, tmnxCellularRssiAlarmClear, SFPStatusInvalidFormFactor, SFPStatusModuleFault, tmnxDS0ChanGrpLoopbackStarted, tmnxDS0ChanGrpLoopbackStopped, tmnxResvPoolUseThreshExcd, tmnxResvPoolUseThreshNotExcd, tmnxTotalPoolUseThreshExcd, tmnxTotalPoolUseThreshNotExcd, tmnxSharedPoolUseThreshExcd, tmnxSharedPoolUseThreshNotExcd, tmnxEqPortFlexEGroupAlrm, tmnxEqPortFlexEGroupAlrmClr, tmnxEqPortFlexEMemberAlrm, tmnxEqPortFlexEMemberAlrmClr, tmnxEqPortFlexEMbrPhyInstAlrm, tmnxEqPortFlexEMbrPhyInstAlrmClr, tmnxEqPortDataChanAlarm, tmnxEqPortDataChanAlarmClear, tmnxEqPortDataLoopbackStarted, tmnxEqPortDataLoopbackStopped, tmnxEqPortRs232LoopbackStarted, tmnxEqPortRs232LoopbackStopped, tmnxEqPortRS232Alarm, tmnxEqPortRS232AlarmClear

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events port event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared

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Context	**configure** log log-events port event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events port event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters that throttle this specific event
Context	**configure** log log-events port event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events port event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged

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Context	**configure** log log-events port event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events port event *keyword* throttle *boolean*
Tree	throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp event *keyword*

Synopsis	Enter the **ptp** list instance
Context	**configure** log log-events ptp event *keyword*
Tree	ptp
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ptp event *keyword*
Tree	ptp
Options	tmnxPtpCardNotSupported, tmnxPtpCardNotSupportedClear, tmnxPtpMasterClockChangedEvent, tmnxPtpClockRecoveryStateChange, tmnxPtpOutOfResources, tmnxPtpOutOfResourcesClear, tmnxPtpDynamicChange, tmnxPtpPortNoTimestamping, tmnxPtpPortPtsfUnusable, tmnxPtpTimeRecoveryStateChange, tmnxPtpPeerNoTxTimestamping, tmnxPtpPeerNoTxTimestampingClear, tmnxPtpPeerNoRxTimestamping, tmnxPtpPeerNoRxTimestampingClear
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ptp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ptp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ptp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ptp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ptp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ptp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ptp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

python event *keyword*

Synopsis	Enter the **python** list instance
Context	**configure** log log-events python event *keyword*
Tree	python
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Python module events
Context	**configure** log log-events python event *keyword*
Tree	python
Options	tmnxPythonInterpreterRestarted, tmnxPythonPreComScrStarted, tmnxPythonPreComScrFinished, tmnxPythonPostComScrStarted, tmnxPythonPostComScrFinished, tmnxPythonPreComScrSkipped, tmnxPythonPostComScrSkipped
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events python event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events python event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events python event *keyword* severity *keyword*

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Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events python event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events python event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events python event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type

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Context	**configure** log log-events python event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

radius event *keyword*

Synopsis	Enter the **radius** list instance
Context	**configure** log log-events radius event *keyword*
Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events radius event *keyword*
Tree	radius
Options	tmnxRadSrvPlcySrvOperStateCh, tmnxRadRouteDownloadFailed, tmnxRadAcctOnOngoing
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events radius event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events radius event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events radius event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events radius event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events radius event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events radius event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events radius event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

rip event *keyword*

Synopsis	Enter the **rip** list instance
Context	**configure** log log-events rip event *keyword*
Tree	rip
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events rip event *keyword*
Tree	rip
Options	ripPacketDiscarded, vRtrRipAuthTypeMismatch, vRtrRipAuthTypeFailure, vRtrRipInstanceShuttingDown, vRtrRipInstanceRestarted, vRtrRipInstanceExpLmtReached, vRtrRipInstanceExpLmtWarning, vRtrRipInstanceRtsExpLmtDropped, vRtrRipPeerBfdDown

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events rip event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events rip event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events rip event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events rip event *keyword* specific-throttle *boolean*
Tree	specific-throttle

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events rip event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events rip event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events rip event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

ripng event *keyword*

Synopsis	Enter the **ripng** list instance

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Context	**configure** log log-events ripng event *keyword*
Tree	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events ripng event *keyword*
Tree	ripng
Options	tmnxRipNgPacketDiscarded, tmnxRipNgAuthTypeMismatch, tmnxRipNgAuthFailure, tmnxRipNgInstShuttingDown, tmnxRipNgInstRestarted, tmnxRipNgInstExpLmtReached, tmnxRipNgInstExpLmtWarning, tmnxRipNgInstRtsExpLmtDropped, tmnxRipNgIfUcastAddrNotUsed, tmnxRipNgPeerBfdDown
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events ripng event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events ripng event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events ripng event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events ripng event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events ripng event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events ripng event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events ripng event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-policy event *keyword*

Synopsis	Enter the **route-policy** list instance
Context	**configure** log log-events route-policy event *keyword*
Tree	route-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events route-policy event *keyword*
Tree	route-policy
Options	trigPolicyPrevEval
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events route-policy event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events route-policy event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events route-policy event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events route-policy event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events route-policy event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events route-policy event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events route-policy event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

rpki event *keyword*

Synopsis	Enter the **rpki** list instance
Context	**configure** log log-events rpki event *keyword*
Tree	rpki
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events rpki event *keyword*
Tree	rpki
Options	tmnxRpkiNotifySession, tmnxRpkiStaleTimerExpiry
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events rpki event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events rpki event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events rpki event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events rpki event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events rpki event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events rpki event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events rpki event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp event *keyword*

Synopsis	Enter the **rsvp** list instance
Context	**configure** log log-events rsvp event *keyword*
Tree	rsvp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events rsvp event *keyword*
Tree	rsvp
Options	vRtrRsvpStateChange, vRtrRsvpIfStateChange, vRtrRsvpIfNbrStateUp, vRtrRsvpIfNbrStateDown, vRtrRsvpPEFailOverPriToStdBy, vRtrRsvpPEFailOverStdByToPri
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events rsvp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events rsvp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events rsvp event *keyword* severity *keyword*
Tree	severity

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Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events rsvp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events rsvp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events rsvp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events rsvp event *keyword* throttle *boolean*

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Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

security event *keyword*

Synopsis	Enter the **security** list instance
Context	**configure** log log-events security event *keyword*
Tree	security
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events security event *keyword*
Tree	security
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, ssh_user_login, ssh_user_logout, ssh_user_login_failed, ssh_user_login_max_attempts, radiusOperStatusChange, user_disconnect, radiusSystemIpAddrNotSet, tacplusOperStatusChange, mafEntryMatch, ftp_transfer_successful, ftp_transfer_failed, enable_admin, host_snmp_attempts, SSH_server_preserve_key_fail, tacplusInetSrvrOperStatusChange, radiusInetServerOperStatusChange, tmnxKeyChainAuthFailure, tmnxCpmProtViolPort, tmnxCpmProtViolPortAgg, tmnxCpmProtViolIf, tmnxCpmProtViolSap, tmnxCpmProtViolMac, tmnxCpmProtViolVdoSvcClient, tmnxCpmProtViolVdoVrtrClient, tmnxMD5AuthFailure, tmnxCpmProtDefPolModified, tmnxCpmProtViolSdpBind, tmnxCpmProtExcdSdpBind, tmnxCpmProtExcdSapEcm, tmnxCpmProtExcdSdpBindEcm, tmnxPkiFileReadFailed, tmnxPkiCertVerificationFailed, tmnxCAProfileStateChange, tmnxCpmProtExcdSapIp, tmnxDcpFpDynPoolUsageHiAlmRaise, tmnxDcpFpDynPoolUsageHiAlmClear, tmnxDcpCardFpEventOvrflwClr, tmnxDcpCardSapEventOvrflwClr, tmnxDcpCardVrtrIfEventOvrflwClr, sapDcpStaticExcd, sapDcpDynamicExcd, sapDcpStaticHoldDownStart, sapDcpDynamicHoldDownStart, sapDcpStaticHoldDownEnd, sapDcpDynamicHoldDownEnd, sapDcpStaticConform, sapDcpDynamicConform, sapDcpLocMonExcd, sapDcpLocMonExcdDynResource, sapDcpLocMonExcdAllDynAlloc, sapDcpLocMonExcdAllDynFreed, sapDcpDynamicEnforceAlloc, sapDcpDynamicEnforceFreed, vRtrIfDcpStaticExcd, vRtrIfDcpDynamicExcd, vRtrIfDcpStaticHoldDownStart, vRtrIfDcpDynamicHoldDownStart, vRtrIfDcpStaticHoldDownEnd,

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vRtrIfDcpDynamicHoldDownEnd, vRtrIfDcpStaticConform, vRtrIfDcpDynamicConform, vRtrIfDcpLocMonExcd, vRtrIfDcpLocMonExcdDynResource, vRtrIfDcpLocMonExcdAllDynAlloc, vRtrIfDcpLocMonExcdAllDynFreed, vRtrIfDcpDynamicEnforceAlloc, vRtrIfDcpDynamicEnforceFreed, tmnxDcpCardFpEventOvrflw, tmnxDcpCardSapEventOvrflw, tmnxDcpCardVrtrIfEventOvrflw, tmnxPkiCAProfActnStatusChg, tmnxCpmProtViolSapOutProf, tmnxCpmProtViolIfOutProf, sysDNSSecFailedAuthentication, tmnxCpmProtExcdSdpBindIp, tmnxSecComputeCertChainFailure, tmnxCpmProtViolSdpBindOutProf, tmnxSecNotifKeyChainExpired, tmnxSysLicenseInvalid, tmnxSysLicenseExpiresSoon, tmnxPkiCAProfRevokeChkWarning, tmnxCAProfUpDueToRevokeChkCrlOpt, tmnxPkiCertBeforeExpWarning, tmnxPkiCertAfterExpWarning, tmnxPkiCertExpWarningCleared, tmnxPkiCRLBeforeExpWarning, tmnxPkiCRLAfterExpWarning, tmnxPkiCRLExpWarningCleared, tmnxSecNotifFileReloaded, tmnxSysLicenseValid, tmnxSecPwdHistoryFileLoadFailed, tmnxSecPwdHistoryFileWriteFailed, tmnxPkiCAProfCrlUpdateStart, tmnxPkiCAProfCrlUpdateSuccess, tmnxPkiCAProfCrlUpdateUrlFail, tmnxPkiCAProfCrlUpdAllUrlsFail, tmnxPkiFileWriteFailed, tmnxPkiCAProfCrlUpdNoNxtUpdTime, tmnxUsrProfSessionLimitExceeded, tmnxCliGroupSessionLimitExceeded, tmnxPkiCAProfCrlUpdLargPreUpdTm, tmnxPkiCertNotYetValid, tmnxPkiCRLNotYetValid, tmnxAppPkiCertVerificationFailed, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts, tmnxSysLicenseActivated, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, radiusUserProfileInvalid, tmnxSysStandbyLicensingError, tmnxSysStandbyLicensingReady, md_cli_io, md_cli_unauth_io, tmnxSysAppLicenseInsufficient, tmnxSysLicenseUpdateRequired, netconf_auth, netconf_unauth, grpc_auth, grpc_unauth, tmnxCertKeyPairGen, tmnxCertImport, tmnxCertExport, tmnxFileDeleted, tmnxFileMoved, tmnxFileCopied, tmnxFileUnzip, tmnxPasswordHashingChanged, tmnxUserPasswordChangedByAdmin, tmnxSSHSessionFailed, tmnxSecSignedSwCpmBootEvent, tSecSgndSwUefiVarsUpdtReqd, tmnxPkiCertUpdUpdateStarted, tmnxPkiCertUpdUpdateFinished, tmnxPkiCertUpdUpdateFailed, tmnxSystemPasswordChangedByAdmin, tmnxSysLicenseCleared, tmnxSysLicensingStateOk, tmnxPkiCertChainCompareCaNoMatch, ssh_auth_key_gen, ssh_auth_key_synch_fail, tmnxSSHListeningPortChanged, tmnxTelnetListeningPortChanged, tmnxSSHListeningPortOccupied, tmnxTelnetListeningPortOccupied, tmnxSSHListeningPortInUse, tmnxTelnetListeningPortInUse, tmnxSysSwDSValidationResult, tacplusUserProfileInvalid, tmnxSSHInvalidPacketLength, tmnxSecureBootDisabledAlarm

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events security event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events security event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events security event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events security event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events security event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events security event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events security event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

snmp event *keyword*

Synopsis	Enter the **snmp** list instance
Context	**configure** log log-events snmp event *keyword*
Tree	snmp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events snmp event *keyword*
Tree	snmp
Options	coldStart, warmStart, authenticationFailure, linkDown, linkUp, risingAlarm, fallingAlarm, hcRisingAlarm, hcFallingAlarm, snmpdError
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events snmp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events snmp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events snmp event *keyword* severity *keyword*
Tree	severity

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Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events snmp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events snmp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events snmp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events snmp event *keyword* throttle *boolean*

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Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-mpls event *keyword*

Synopsis	Enter the **sr-mpls** list instance
Context	**configure** log log-events sr-mpls event *keyword*
Tree	sr-mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	SR MPLS event
Context	**configure** log log-events sr-mpls event *keyword*
Tree	sr-mpls
Options	tmnxSrMplsPfxSidFailure, tmnxSrMplsPfxSidFlexAlgoFailure
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events sr-mpls event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared

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Context	**configure** log log-events sr-mpls event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events sr-mpls event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events sr-mpls event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events sr-mpls event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events sr-mpls event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events sr-mpls event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy event *keyword*

Synopsis	Enter the **sr-policy** list instance
Context	**configure** log log-events sr-policy event *keyword*
Tree	sr-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Events for SR policy module
Context	**configure** log log-events sr-policy event *keyword*
Tree	sr-policy
Options	vRtrSrPathIsCandPathOperChanged, vRtrSrPlcyPathActiveStateChanged
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events sr-policy event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events sr-policy event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events sr-policy event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events sr-policy event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events sr-policy event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events sr-policy event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events sr-policy event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

stp event *keyword*

Synopsis	Enter the **stp** list instance
Context	**configure** log log-events stp event *keyword*
Tree	stp
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events stp event *keyword*
Tree	stp
Options	topologyChangeSapMajorState, newRootSap, topologyChangeVcpState, newRootVcpState, topologyChangeSapState, receivedTCN, newRootBridge, unacknowledgedTCN, higherPriorityBridge, sapEncapPVST, sapEncapDot1d, tmnxSvcTopoChgSdpBindMajorState, tmnxSvcNewRootSdpBind, tmnxSvcTopoChgSdpBindState, tmnxSvcSdpBindRcvdTCN, tmnxSvcSdpBindRcvdHigherBriPrio, tmnxSvcSdpBindEncapPVST, tmnxSvcSdpBindEncapDot1d, tmnxNewCistRegionalRootBridge, tmnxNewMstiRegionalRootBridge, tmnxStpRootGuardViolation, tmnxStpMeshNotInMstRegion, tmnxSapStpExcepCondStateChng, tmnxSdpBndStpExcepCondStateChng, sapActiveProtocolChange, tmnxSvcSdpActiveProtocolChange, vcpActiveProtocolChange, topologyChangePipMajorState, topologyChangePipState, tmnxPipStpExcepCondStateChng, pipActiveProtocolChange
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events stp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events stp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events stp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events stp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events stp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events stp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000

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Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events stp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

svcmgr event *keyword*

Synopsis	Enter the **svcmgr** list instance
Context	**configure** log log-events svcmgr event *keyword*
Tree	svcmgr
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events svcmgr event *keyword*
Tree	svcmgr
Options	svcTlsMacPinningViolation, tmnxSubSlaacOverride, svcEvpnMplsMacMoveExceedNonBlock, svcTlsVxInstReplicatorChgd, svcArpHostOverride, svcEvpnMHEsEviDFStateChgd, svcEvpnMHEsIsidDFStateChgd, svcEvpnRcvdProtSrcMac, svcBgpEvpnBHDupMacAddrsDetected, svcEvpnEtreeBumLabelSysHiUsgSet, svcEvpnEtreeBumLabelSysHiUsgClr, svcVxlanEvpnMplsDestSysHiUsgSet, svcVxlanEvpnMplsDestSysHiUsgClr, svcStatusChanged, svcTlsFdbTableFullAlarmRaised, svcTlsFdbTableFullAlarmCleared, svcSysEvpnESDfPrefOperValChange, tmnxSvcSysFdbTableHighUsgSet, iesIfStatusChanged, tmnxEndPointTxActiveChanged, tmnxSvcSysFdbTableHighUsgClr, svcEvpnVxVTepLclBiasAddFailSet, svcEvpnESVxVTepLclBiasAddFailSet, svcEvpnVxVTepLclBiasAddFailClr, svcEvpnESVxVTepLclBiasAddFailClr, svcEvpnRcvdPbbProtSrcMac, svcTlsMrpAttrRegistrationFailed, svcTlsMrpAttrTblFullAlarmRaised, svcTlsMrpAttrTblFullAlarmCleared, svcEvpnMplsTEPEgrLblStateChgd, svcEpipePbbOperStatusChanged,

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svcTlsVxInstVTEPEgrVniStateChgd, svcEvpnVxInstESDstTEPStateChgd, svcSrv6InstTEPSidOperStateChgd, svcSrv6InstESDstTEPOperStateChgd, svcEvpnMplsESDestTEPStateChgd, svcBgpEvpnTepStateChgd, svcSrv6FunctionOutOfResources, sapStatusChanged, sapTlsMacAddrLimitAlarmRaised, sapTlsMacAddrLimitAlarmCleared, hostConnectivityLost, hostConnectivityRestored, sapReceivedProtSrcMac, sapTlsMacMoveExceeded, sapPortStateChangeProcessed, sapCemPacketDefectAlarm, sapCemPacketDefectAlarmClear, msapStateChanged, msapCreationFailure, sapTlsMacMoveExceedNonBlock, sapEthLoopbackStarted, sapEthLoopbackStopped, sapTunnelEncapIpMtuTooSmall, tmnxIpTunnelOperStateChange, sapIfIgnorePortStateStart, sapIfIgnorePortStateStop, sapReceivedPbbProtSrcMac, sdpStatusChanged, sdpBindStatusChanged, sdpKeepAliveStarted, sdpKeepAliveStopped, sdpKeepAliveProbeFailure, sdpKeepAliveLateReply, sdpTlsMacAddrLimitAlarmRaised, sdpTlsMacAddrLimitAlarmCleared, sdpBindPwPeerStatusBitsChanged, sdpBindTlsMacMoveExceeded, sdpBindPwPeerFaultAddrChanged, sdpBindSdpStateChangeProcessed, sdpBandwidthOverbooked, sdpBindInsufficientBandwidth, dynamicSdpConfigChanged, dynamicSdpBindConfigChanged, dynamicSdpCreationFailed, dynamicSdpBindCreationFailed, sdpEgrIfsNetDomInconsCntChanged, sdpBindIpipeCeIpAddressChange, sdpBindReceivedProtSrcMac, sdpBindPwLocalStatusBitsChanged, sdpBindTlsMacMoveExceedNonBlock, sdpBindEthLoopbackStarted, sdpBindEthLoopbackStopped, sdpPbbActvPwWithNonActvCtrlPwChg, svcBgpEvpnDupMacAddrsDetected, svcBgpEvpnDupMacAddrsCleared, svcTlsVTEPHiUsageAlarmRaised, svcTlsVTEPHiUsageAlarmCleared, svcTlsVTEPEgrVniSysHiUsgAlarmSet, svcTlsVTEPEgrVniSysHiUsgAlarmClr, svcTlsVTEPEgrVniSvcHiUsgAlarmSet, svcTlsVTEPEgrVniSvcHiUsgAlarmClr, svcBindSysHiUsageAlarmRaised, svcBindSysHiUsageAlarmCleared, sdpControlPwActiveStateChg, svcTlsProxyArpDupDetect, svcTlsProxyArpDupClear, svcTlsProxyNdDupDetect, svcTlsProxyNdDupClear, svcTlsEvpnTunnNHopHiUsgAlarmSet, svcTlsEvpnTunnNHopHiUsgAlarmClr, svcEvpnMplsTEPHiUsageRaised, svcEvpnMplsTEPHiUsageCleared, svcEvpnMplsTEPEgrBndSysHiUsgSet, svcEvpnMplsTEPEgrBndSysHiUsgClr, svcEvpnMplsTEPEgrBndSvcHiUsgSet, svcEvpnMplsTEPEgrBndSvcHiUsgClr, svcTlsProxyArpSysHiUsgSet, svcTlsProxyArpSysHiUsgClr, svcTlsProxyArpSvcHiUsgSet, svcTlsProxyArpSvcHiUsgClr, svcTlsProxyNdSysHiUsgSet, svcTlsProxyNdSysHiUsgClr, svcTlsProxyNdSvcHiUsgSet, svcTlsProxyNdSvcHiUsgClr, svcSiteMinDnTimerStateChg, sdpBindReceivedPbbProtSrcMac, svcSrv6TEPHiUsageRaised, svcSrv6TEPHiUsageCleared, svcTlsMfibTableFullAlarmRaised, svcTlsMfibTableFullAlarmCleared, tmnxSubscriberCreated, tmnxSubscriberDeleted, tmnxSubscriberRenamed, tmnxSubAcctPlcyFailure, tmnxSubMcsRelatedProblem, tmnxSubAuthPlcyRadSerOperStatChg, tmnxSubAcctPlcyRadSerOperStatChg, svcEndPointMacLimitAlarmRaised, svcEndPointMacLimitAlarmCleared, tmnxSubRadSapDisconnectError, tmnxSubRadSdpBndDisconnectError, tmnxSubRadSapCoAError, tmnxSubRadSdpBndCoAError, tmnxSubRadSapSubAuthError, tmnxSubRadSdpBndSubAuthError, svcFdbMimDestTblFullAlrm, svcFdbMimDestTblFullAlrmCleared, svcPersistencyProblem, svcArpHostPopulateErr, svcEPMCEPConfigMismatch, svcEPMCEPConfigMismatchResolved, svcEPMCEPPassiveModeActive, svcEPMCEPPassiveModePassive,

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sapHostBGPPeeringSetupFailed, tmnxSubUserCategoryOutOfCredit, svcRestoreHostProblem, tmnxSubUserCategoryRefreshCredit, tmnxSubUserCategoryError, svcTlsSiteDesigFwdrChg, sapTlsDataSapInstStatusChgd, svcTlsGroupOperStatusChanged, sapTunnelStateChange, tmnxSubHostInconsistentAtmTdOvr, svcMSPwRtMisconfig, svcOperGrpOperStatusChanged, sapIpipeCeIpAddrChange, svcMSPwRetryExpiredNotif, svcVllSiteDesigFwdrChg, tmnxSubSlaacSetupFailure, tmnxIpTunnelOperRemIpChg, tmnxSubHostLcktLimitReached, tmnxSubHostLcktSapLimitReached, tmnxSubSysChassMemoryUsageHi, tmnxSubVSubnetHostsDeleted, sapHostRipListenerSetupFailed, tmnxSubIpoeInvalidSessionKey, tmnxSubIpoeInvalidCidRidChange, tmnxSubIpoeSessionLimitReached, tmnxSubIpoePersistenceRecovery, tmnxSubIpoeMigrHostDeleted, tmnxSubMngdHostCreationFail, tmnxSubMngdHostOverride, tmnxSubHostInfoConflict, tmnxSubPlBndFailed, tmnxSubBrgCreated, tmnxSubBrgDeleted, tmnxSubBrgCvInitFailed, tmnxSubBrgRadiusUpdateIpoeSeFail, tmnxSubBrgRadiusCoaError, tmnxSubBrgRadiusAuthError, tmnxSubBrgSessionLimitReached, tmnxSubStatsResourceLimitReached, tmnxSubDhcpOverloadDetected, aluIpTransportStateChanged, tmnxSubBrgRadiusProxyAuthError, tmnxSubIpoeSessionBrgNotAuth, tmnxSubRadiusCoaNatFwdFailed, tmnxSubSVlanStatsReachedMaximum, svcTlsVxInstMacAdrLimitAlrmRsd, svcTlsVxInstMacAdrLimitAlrmClrd, tmnxSubCupsUpSapCreationFailed, tmnxSubCupsUpIfCreationFailed, tmnxPfcpAssocPathMgmtStateChgd, tmnxSubInfoEgrAggRateLimitLowReq, tmnxSubIpoeWppRegistrationFailed, svcEvpnMplsTEPIpSysHiUsgSet, svcEvpnMplsTEPIpSysHiUsgClr, svcEvpnMHAutoEsiCreated, svcEvpnMHAutoEsiConflict, svcSrv6TEPEgrBndSysHiUsgSet, svcSrv6TEPEgrBndSysHiUsgClr, svcIfSubForwardingStatsDisNotify, svcIfSubForwardingStatsEnNotify, svcRoutedVplsEvpnGWDrStateChgd, svcSrv6TEPEgrBndSvcHiUsgSet, svcSrv6TEPEgrBndSvcHiUsgClr, tmnxSapMRtCpeChkStatusChange, svcEvpnMplsMldpESLblHiUsgSet, svcEvpnMplsMldpESLblHiUsgClr, svcTlsProxyArpUnauthorizedIP, svcTlsProxyNdUnauthorizedIP, svcRvplsEvpnMcastDestSysHiUsgSet, svcRvplsEvpnMcastDestSysHiUsgClr, tmnxSubPysrosExec, tmnxSubPysrosExecFail, svcEvpnVxInstMHStandbyStatusChg, sapCemAsymDelayControlEventStart, sapCemAsymDelayControlEventStop, sapCemActMultPathStateChg

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events svcmgr event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2

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Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events svcmgr event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events svcmgr event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events svcmgr event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events svcmgr event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events svcmgr event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events svcmgr event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

system event *keyword*

Synopsis	Enter the **system** list instance
Context	**configure** log log-events system event *keyword*
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events system event *keyword*
Tree	system

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Options	stiDateAndTimeChanged, ssiSaveConfigSucceeded, ssiSaveConfigFailed, sbiBootConfig, sbiBootSnmpd, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, tmnxModuleMallocFailed, tmnxTrapDropped, ssiSyncConfigOK, ssiSyncConfigFailed, ssiSyncBootEnvOK, ssiSyncBootEnvFailed, socket_bind_failed, socket_conn_accept_failed, sntpTimeDiffExceedsThreshold, tmnxSssiMismatch, tmnxSnmpdStateChange, tmnxRedStandbySyncing, tmnxRedStandbyReady, tmnxRedStandbySyncLost, tmnxRedSwitchover, tmnxRedCpmActive, tmnxRedSingleCpm, persistencyClosedAlarmRaised, persistencyClosedAlarmCleared, tmnxSntpOperChange, tmnxFtpClientFailure, persistencyEventReport, sbiBootConfigFailFileError, sbiBootConfigOKFileError, persistenceRestoreProblem, tmnxSysRollbackStarted, tmnxSysRollbackStatusChange, tmnxSysRollbackSaveStatusChange, tmnxSysRollbackFileDeleteStatus, ssiSyncRollbackOK, ssiSyncRollbackFailed, ssiSyncCertOK, ssiSyncCertFailed, persistencyFileSysThresRaised, persistencyFileSysThresCleared, tmnxSysExecStarted, tmnxSysExecFinished, tmnxSysRollbackSaveStarted, tmnxSysRollbackDeleteStarted, tmnxSysNvsysFileError, tmnxConfigConflict, tmnxSysBaseMacAddressNotSet, tmnxSmLaunchStartFailed, tmnxEhsHandlerInvoked, tmnxEhsDroppedByMinDelay, tmnxSysAppStats24HrsAvailable, tmnxSysAppStatsWeekAvailable, tmnxSysMgmtIfModeChangeStart, tmnxSysMgmtIfModeChangeComplete, tmnxSysMgmtIfModeChangeFailure, tmnxSysMgmtIfLiIncorrectFormat, tmnxSysMgmtIfLiCfgNotEncrypted, stiDateAndTimeChanging, tmnxSysSwFabFailRecStarted, tmnxSysSwFabFailRecCompleted, tmnxSysSwFabFailRecAborted, tmnxSysSwFabFailRecDetected, tMirrorLiXIfLicenseInvalid, mdSaveCommitHistoryFailed, sbiBootMdReadCommitHistoryFailed, tmnxSysDyingGasp, tmnxSysHttpRdrOutOfSeqLimitExc, schedActionFailure, smScriptAbort, smScriptResult, smScriptException, ssiSaveIncrementConfigSucceeded, ssiSaveIncrementConfigFailed, ssiSaveBackgroundConfigSucceeded, ssiSaveBackgroundConfigFailed, tmnxLastSystemRebootAdmin, mdCommitInProgress, mdCommitSucceeded, tmnxSysNtcnfListenPortOccupied, tmnxSysNtcnfListenOperStateChngd, tmnxSysNtcnfSessionDropped
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events system event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events system event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events system event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events system event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events system event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events system event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events system event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls event *keyword*

Synopsis	Enter the **tls** list instance
Context	**configure** log log-events tls event *keyword*
Tree	tls
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events tls event *keyword*
Tree	tls
Options	tmnxTlsInitiateSession, tmnxTlsTermination, tmnxTlsFailure, tmnxTlsSANCheckStatus
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events tls event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events tls event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events tls event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events tls event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events tls event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events tls event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events tls event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

user event *keyword*

Synopsis	Enter the **user** list instance
Context	**configure** log log-events user event *keyword*
Tree	user
Introduced	25.3.R2

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Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events user event *keyword*
Tree	user
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, cli_user_io, snmp_user_set, cli_config_io, cli_unauth_user_io, cli_unauth_config_io, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events user event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events user event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type

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Context	**configure** log log-events user event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events user event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events user event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events user event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events user event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp event *keyword*

Synopsis	Enter the **vrrp** list instance
Context	**configure** log log-events vrrp event *keyword*
Tree	vrrp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events vrrp event *keyword*
Tree	vrrp
Options	vrrpTrapNewMaster, vrrpTrapAuthFailure, tmnxVrrpIPListMismatch, tmnxVrrpIPListMismatchClear, tmnxVrrpMultipleOwners, tmnxVrrpBecameBackup, vrrpPacketDiscarded, tmnxVrrpBfdIntfSessStateChgd, vrrpTrapProtoError, tVrrpBecameBackup, tVrrpTrapNewMaster, tVrrpIPListMismatch, tVrrpIPListMismatchClear, tVrrpMultipleOwners, tVrrpPacketDiscarded, tVrrpRouterAdvNotActivated, tVrrpRouterAdvNotActivatedClear, tVrrpOperDownInvalidMac, tVrrpOperDownInvalidMacClear, tmnxVrrpOperDownInvalidMac, tmnxVrrpOperDownInvalidMacClear
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events vrrp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events vrrp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events vrrp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events vrrp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

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specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events vrrp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events vrrp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events vrrp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrtr event *keyword*

Synopsis	Enter the **vrtr** list instance
Context	**configure** log log-events vrtr event *keyword*
Tree	vrtr
Introduced	25.3.R2

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Platforms SAR Gen 2

event *keyword*

Synopsis Log event as a trigger for one or more EHS handlers

Context **configure** log log-events vrtr event *keyword*

Tree vrtr

Options tmnxVRtrMidRouteTCA, tmnxVRtrHighRouteTCA, tmnxVRtrHighRouteCleared, tmnxVRtrMcastMidRouteTCA, tmnxVRtrMcastMaxRoutesTCA, tmnxVRtrMcastMaxRoutesCleared, tmnxVRtrMaxArpEntriesTCA, tmnxVRtrMaxArpEntriesCleared, tmnxVRtrMaxRoutes, tmnxVRtrBfdMaxSessionOnSlot, tmnxVRtrBfdPortTypeNotSupported, tmnxVRtrIPv6MidRouteTCA, tmnxVRtrIPv6HighRouteTCA, tmnxVRtrIPv6HighRouteCleared, tmnxVRtrStaticRouteCPEStatus, tmnxVRtrManagedRouteAddFailed, tmnxVRtrFibOccupancyThreshold, tmnxVRtrInetAddressAttachFailed, tmnxVRtrSingleSfmOverloadStateCh, tmnxVRtrGrtExportLimitReached, tmnxVRtrGrtRoutesExpLimitDropped, tmnxVRtrIfLdpSyncTimerStart, tmnxVRtrIfLdpSyncTimerStop, tmnxVRtrGrtV6ExportLimitReached, tmnxVRtrGrtV6RoutesExpLimDropped, tmnxVRtrStaticRouteStatusChanged, tmnxVRtrBfdSessExtDown, tmnxVRtrBfdSessExtUp, tmnxVRtrBfdSessExtDeleted, tmnxVRtrBfdSessExtProtChange, tmnxVRtrBfdExtNoCpmNpResources, tmnxVRtrDnsFault, tmnxVRtrMacAcctLimitReached, tmnxVRtrMacAcctLimitCleared, tmnxVRtrNgBfdSessDown, tmnxVRtrNgBfdSessUp, tmnxVRtrNgBfdSessDeleted, tmnxVRtrNgBfdSessProtChange, tmnxVRtrNgBfdNoCpmNpResources, tmnxVRtrNHRvplsARPHighUsage, tmnxVRtrNHRvplsARPExhaust, tmnxVRtrNHRvplsARPHighUsageClr, tmnxVRtrArpLmt, tmnxVRtrArpThresholdExceeded, tmnxVRtrIpv6NbrLmt, tmnxVRtrIpv6NbrThresholdExceeded, tmnxVRtrIfIgnorePortState, tmnxVRtrPdnAddrMismatch, tmnxVRtrPdnAddrMismatchCleared, tmnxVRtrLeakExportLimitReached, tmnxVRtrLeakExportLimitDropped, tmnxVRtrDhcpClientStatusChanged, tmnxVRtrDhcp6ClientStatusChanged, tmnxVRtrNeDiscovered, tmnxVRtrNeRemoved, tmnxVRtrNeModified, vRtrIfDhcpClRtStatusChanged, vRtrIfDhcpClStateDnsChanged, vRtrAutoCfgRaRtStatusChanged, vRtrIfDhcp6ClStateDnsChanged, tipNbrAllocFailed, vRtrIfEthLoopbackStarted, vRtrIfEthLoopbackStopped, tmnxVRtrBfdExtNoFreeTxIntrvlSlot, tmnxVRtrFibVPNOccupancyThreshold, tmnxVRtrBfdMultiHopFpMismatch, vRtrBgpInstanceError, vrtrIfIpTunnelOperStateChange, tmnxVRtrBfdExtModifTxIntrvl

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

generate *boolean*

Synopsis Generate log events when the event occurs

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Context	**configure** log log-events vrtr event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events vrtr event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events vrtr event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events vrtr event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events vrtr event *keyword* specific-throttle-interval *number*

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Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events vrtr event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events vrtr event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

wlan-gw event *keyword*

Synopsis	Enter the **wlan-gw** list instance
Context	**configure** log log-events wlan-gw event *keyword*
Tree	wlan-gw
Introduced	25.3.R2
Platforms	SAR Gen 2

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event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events wlan-gw event *keyword*
Tree	wlan-gw
Options	tmnxWlanGwResrcProblemDetected, tmnxWlanGwResrcProblemCause, tmnxWlanGwTuQosProblem, tmnxWlanGwGrpOperStateChanged, tmnxWlanGwIomActive, tmnxWlanGwMgwConnected, tmnxWlanGwMgwRestarted, tmnxWlanGwNumMgwHi, tmnxWlanGwMgwStateChanged, tmnxWlanGwQosRadiusGtpMismatch, tmnxWlanGwSubIfRedActiveChanged, tmnxWlanGwDsmGtpTunnelSetupFail, tmnxWlanGwSubIfPmStartD6cFailed, tmnxWlanGwSubIfPmNewPlReqFailed, tmnxWlanGwSubIfPmAddNewPlFailed, tmnxWlanGwSubIfPmCrIntObjFailed, tmnxWlanGwSubIfPmPoolTimeout, tmnxWlanGwSubIfPmPoolUsageLow, tmnxWlanGwSubIfPmLsQryRtryFailed, tmnxWlanGwGtpMessageDropped, tmnxWlanGwSubIfPmPoolPartialUse, tmnxWlanGwBdCreated, tmnxWlanGwBdDeleted, tmnxWlanGwUeCreationFail, tmnxWlanGwUeReplacement, tmnxWlanGwGrpMemberUsageHigh
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events wlan-gw event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events wlan-gw event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events wlan-gw event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events wlan-gw event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events wlan-gw event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events wlan-gw event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

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throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events wlan-gw event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

wpp event *keyword*

Synopsis	Enter the **wpp** list instance
Context	**configure** log log-events wpp event *keyword*
Tree	wpp
Introduced	25.3.R2
Platforms	SAR Gen 2

event *keyword*

Synopsis	Log event as a trigger for one or more EHS handlers
Context	**configure** log log-events wpp event *keyword*
Tree	wpp
Options	tmnxWppPortalStatChanged, tmnxWppHostAuthenticationFailed, tmnxWppPortalUnreachable, tmnxWppPortalGroupStatChanged, tmnxWppPGHostAuthFailed
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate *boolean*

Synopsis	Generate log events when the event occurs
Context	**configure** log log-events wpp event *keyword* generate *boolean*
Tree	generate
Introduced	25.3.R2

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Platforms	SAR Gen 2

repeat *boolean*

Synopsis	Repeat the log event until the condition is cleared
Context	**configure** log log-events wpp event *keyword* repeat *boolean*
Tree	repeat
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level associated with event type
Context	**configure** log log-events wpp event *keyword* severity *keyword*
Tree	severity
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle *boolean*

Synopsis	Use parameters to throttle the specific event
Context	**configure** log log-events wpp event *keyword* specific-throttle *boolean*
Tree	specific-throttle
Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-interval *number*

Synopsis	Duration of the event specific throttling interval
Context	**configure** log log-events wpp event *keyword* specific-throttle-interval *number*
Tree	specific-throttle-interval
Description	This command specifies the number of seconds that the specific throttling intervals lasts.
Range	1 to 1200

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Introduced	25.3.R2
Platforms	SAR Gen 2

specific-throttle-limit *number*

Synopsis	Throttle limit within which events can be logged
Context	**configure** log log-events wpp event *keyword* specific-throttle-limit *number*
Tree	specific-throttle-limit
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle *boolean*

Synopsis	Throttle log events of this type
Context	**configure** log log-events wpp event *keyword* throttle *boolean*
Tree	throttle
Description	This command specifies whether events of this type are throttled. By default, event throttling is on for most event types.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-id [name] *log-name*

Synopsis	Enter the **log-id** list instance
Context	**configure** log log-id *log-name*
Tree	log-id
Max. instances	30
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *log-name*

Synopsis	Log ID
Context	**configure** log log-id *log-name*

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Tree	log-id
String length	1 to 64
String format	'log-name' must be numeric 1..101 or alphanumeric not starting with underscore and without leading or trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the log
Context	**configure** log log-id *log-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log log-id *log-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination

Synopsis	Enter the **destination** context
Context	**configure** log log-id *log-name* destination
Tree	destination
Description	Commands in this context specify where log event data is to be sent.
Introduced	25.3.R2

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Platforms	SAR Gen 2

cli

Synopsis	Enable the **cli** context
Context	**configure** log log-id *log-name* destination cli
Tree	cli
Description	Commands in this context configure log events directed to any subscribed CLI session. Subscribe to a CLI log from within a CLI session using the **tools perform log subscribe-to log-id** command. Events are sent to the CLI session for the duration of the CLI session or until a **tools perform log unsubscribe-from** command is issued. A local circular memory log is maintained for CLI logs.
Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Number of events stored in this CLI log
Context	**configure** log log-id *log-name* destination cli max-entries *number*
Tree	max-entries
Range	50 to 3000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

console

WARNING:
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Synopsis	Send log events to the system console port

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Context	**configure** log log-id *log-name* destination console
Tree	console
Description	When specified, the system directs log events to the console port. If the console is not connected, the system drops all entries.
Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

file *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	File to send log events
Context	**configure** log log-id *log-name* destination file *reference*
Tree	file
Description	This command specifies the file where the system directs log events. When the command is modified, log files are not written to the new location until a rollover occurs or the log is manually cleared. Use the **clear log** command to force a rollover. Subsequent log entries are then written to the new location. If a rollover does not occur or the log is not cleared, the system continues to use the old location.
Reference	**configure** log file *file-policy-name*
Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

memory

Synopsis	Enable the **memory** context
Context	**configure** log log-id *log-name* destination memory
Tree	memory
Description	Commands in this context configure log events directed to a memory file. A memory file is a circular buffer. When the file is full, each new entry replaces the oldest entry in the log.

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Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Number of events stored in this memory log
Context	**configure** log log-id *log-name* destination memory max-entries *number*
Tree	max-entries
Range	50 to 3000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf

Synopsis	Enable the **netconf** context
Context	**configure** log log-id *log-name* destination netconf
Tree	netconf
Description	Commands in this context configure log events directed to a NETCONF session as notifications. A NETCONF client can subscribe to a NETCONF log using the configured **netconf-stream** for the log in a subscription request. One or more NETCONF sessions can subscribe to a NETCONF log or stream.
Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-entries *number*

WARNING:
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Synopsis	Number of events stored in this NETCONF log
Context	**configure** log log-id *log-name* destination netconf max-entries *number*
Tree	max-entries
Range	50 to 3000
Introduced	25.3.R2
Platforms	SAR Gen 2

snmp

Synopsis	Enable the **snmp** context
Context	**configure** log log-id *log-name* destination snmp
Tree	snmp
Description	Commands in this context configure log events directed to the **snmp-trap-group** associated with the log ID. A local circular memory log is maintained for SNMP logs.
Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Number of events stored in this SNMP log
Context	**configure** log log-id *log-name* destination snmp max-entries *number*
Tree	max-entries
Range	50 to 3000
Default	100
Introduced	25.3.R2

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Platforms	SAR Gen 2

syslog *reference*

WARNING:
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Synopsis	Syslog collector to send log events
Context	**configure** log log-id *log-name* destination syslog *reference*
Tree	syslog
Description	This command specifies the syslog collector to direct log events. To remain consistent with the standards governing syslog, messages to syslog are truncated to 1024 bytes.
Reference	**configure** log syslog *log-syslog-name*
Notes	The following elements are part of a choice: **cli**, **console**, **file**, **memory**, **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Event filter policy with the log destination
Context	**configure** log log-id *log-name* filter *reference*
Tree	filter
Reference	**configure** log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf-stream *named-item*

Synopsis	Destination NETCONF stream name
Context	**configure** log log-id *log-name* netconf-stream *named-item*
Tree	netconf-stream
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

source

Synopsis	Enter the **source** context
Context	**configure** log log-id *log-name* source
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

change *boolean*

Synopsis	Collect log events from change event stream
Context	**configure** log log-id *log-name* source change *boolean*
Tree	change
Introduced	25.3.R2
Platforms	SAR Gen 2

debug *boolean*

Synopsis	Collect log events from the debug event stream
Context	**configure** log log-id *log-name* source debug *boolean*
Tree	debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

main *boolean*

Synopsis	Collect log events from the main event stream
Context	**configure** log log-id *log-name* source main *boolean*
Tree	main
Introduced	25.3.R2
Platforms	SAR Gen 2

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security *boolean*

Synopsis	Collect log events from the security event stream
Context	**configure** log log-id *log-name* source security *boolean*
Tree	security
Introduced	25.3.R2
Platforms	SAR Gen 2

time-format *keyword*

Synopsis	Time zone output for file log contents and syslog
Context	**configure** log log-id *log-name* time-format *keyword*
Tree	time-format
Options	utc, local
Default	utc
Introduced	25.3.R2
Platforms	SAR Gen 2

route-preference

Synopsis	Enter the **route-preference** context
Context	**configure** log route-preference
Tree	route-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary routing preference for traffic that is generated for SNMP notifications and syslog messages
Context	**configure** log route-preference primary *keyword*
Tree	primary
Options	inband, outband
Default	outband
Introduced	25.3.R2

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Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary route preference for SNMP and syslog traffic
Context	**configure** log route-preference secondary *keyword*
Tree	secondary
Options	inband, outband, none
Default	inband
Introduced	25.3.R2
Platforms	SAR Gen 2

services-all-events

Synopsis	Enter the **services-all-events** context
Context	**configure** log services-all-events
Tree	services-all-events
Introduced	25.3.R2
Platforms	SAR Gen 2

service [service-name] *reference*

Synopsis	Add a list entry for **service**
Context	**configure** log services-all-events service *reference*
Tree	service
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *reference*

Synopsis	Administrative service name
Context	**configure** log services-all-events service *reference*
Tree	service
Reference	**configure** service vprn *service-name*
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

snmp-trap-group [log-name] *snmp-trap-group-name*

Synopsis	Enter the **snmp-trap-group** list instance
Context	**configure** log snmp-trap-group *snmp-trap-group-name*
Tree	snmp-trap-group
Max. instances	15
Introduced	25.3.R2
Platforms	SAR Gen 2

[**log-name**] *snmp-trap-group-name*

Synopsis	Log ID
Context	**configure** log snmp-trap-group *snmp-trap-group-name*
Tree	snmp-trap-group
String length	1 to 32
String format	'snmp-trap-group-name' must be numeric 1..100 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log snmp-trap-group *snmp-trap-group-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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trap-target [name] *string*

Synopsis	Enter the **trap-target** list instance
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string*
Tree	trap-target
Max. instances	25
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *string*

Synopsis	Trap target name
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string*
Tree	trap-target
String length	1 to 28
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the trap receiver
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

notify-community *string*

Synopsis	SNMPv1 or SNMPv2c community name string, or SNMPv3 security name, for sending a notification
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* notify-community *string*
Tree	notify-community
String length	1 to 31
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	UDP port number to send messages to this remote SNMP notification collector
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* port *number*
Tree	port
Range	0 | 1 to 65535
Default	162
Introduced	25.3.R2
Platforms	SAR Gen 2

replay *boolean*

Synopsis	Retransmit missed notifications
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* replay *boolean*
Tree	replay
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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security-level *keyword*

Synopsis	Security level at which SNMP notification messages are sent to SNMP notification collector
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* security-level *keyword*
Tree	security-level
Options	no-auth-no-privacy, auth-no-privacy, privacy
Default	no-auth-no-privacy
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	SNMP version to format notification messages sent to this SNMP notification collector
Context	**configure** log snmp-trap-group *snmp-trap-group-name* trap-target *string* version *keyword*
Tree	version
Options	snmpv1, snmpv2c, snmpv3
Default	snmpv3
Introduced	25.3.R2
Platforms	SAR Gen 2

syslog [syslog-name] *log-syslog-name*

Synopsis	Enter the **syslog** list instance
Context	**configure** log syslog *log-syslog-name*
Tree	syslog
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**syslog-name**] *log-syslog-name*

Synopsis	Syslog name

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Context	**configure** log syslog *log-syslog-name*
Tree	syslog
String length	1 to 64
String format	'log-syslog-name' must be numeric 1..10 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*

Synopsis	IP address or FQDN of the Syslog target host
Context	**configure** log syslog *log-syslog-name* address *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*
Tree	address
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** log syslog *log-syslog-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

facility *keyword*

Synopsis	Facility code for messages
Context	**configure** log syslog *log-syslog-name* facility *keyword*
Tree	facility
Options	kernel, user, mail, systemd, auth, syslogd, printer, netnews, uucp, cron, authpriv, ftp, ntp, logaudit, logalert, cron2, local0, local1, local2, local3, local4, local5, local6, local7

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Default	local7
Introduced	25.3.R2
Platforms	SAR Gen 2

hostname

Synopsis	Enter the **hostname** context
Context	**configure** log syslog *log-syslog-name* hostname
Tree	hostname
Description	Commands in this context control how the HOSTNAME field of syslog messages is populated.
Introduced	25.3.R2
Platforms	SAR Gen 2

use-system-name

Synopsis	Enable the **use-system-name** context
Context	**configure** log syslog *log-syslog-name* hostname use-system-name
Tree	use-system-name
Description	This command configures the system to use the system name configured with the **configure system name** command as the HOSTNAME field of syslog messages. Do not use any spaces in the system name if it is being used for the syslog HOSTNAME.
Notes	The following elements are part of a choice: **use-system-name** or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *named-item-255*

Synopsis	Syslog HOSTNAME field value
Context	**configure** log syslog *log-syslog-name* hostname value *named-item-255*
Tree	value
Description	This command configures the system to use a specified string as the HOSTNAME field of syslog messages. Do not use any spaces in the string used for the syslog HOSTNAME.
String length	1 to 255

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String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **use-system-name** or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-prefix *(keyword | string)*

Synopsis	String that is prepended to every log message sent to this target syslog host
Context	**configure** log syslog *log-syslog-name* log-prefix *(keyword | string)*
Tree	log-prefix
String length	1 to 32
Options	no-prefix
Default	TMNX
String format	'log-prefix' must contain only printable characters between 33 and 126 ASCII except ':' and '='
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	Destination port when sending syslog over UDP
Context	**configure** log syslog *log-syslog-name* port *number*
Tree	port
Range	0 | 1 to 65535
Default	514
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level threshold for the syslog message
Context	**configure** log syslog *log-syslog-name* severity *keyword*
Tree	severity
Options	emergency, alert, critical, error, warning, notice, info, debug
Default	info

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Introduced	25.3.R2
Platforms	SAR Gen 2

timestamp-format *keyword*

Synopsis	Syslog timestamp format
Context	**configure** log syslog *log-syslog-name* timestamp-format *keyword*
Tree	timestamp-format
Options	millisecond – Set timestamp format to milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-client-profile *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	TLS client profile used to encrypt syslog communication
Context	**configure** log syslog *log-syslog-name* tls-client-profile *reference*
Tree	tls-client-profile
Description	This command specifies the Transport Layer Security (TLS) client profile used to encrypt syslog communications. When configured, syslog messages are sent using TLS. Any change to this command results in a brief interruption of the event log, which may cause the loss of a few syslog messages. When this command is unconfigured, the syslog messages are sent over UDP.
Reference	**configure** system security tls client-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

throttle-rate

Synopsis	Enter the **throttle-rate** context
Context	**configure** log throttle-rate
Tree	throttle-rate
Introduced	25.3.R2

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Platforms	SAR Gen 2

interval *number*

Synopsis	Duration of an event throttling interval
Context	**configure** log throttle-rate interval *number*
Tree	interval
Range	1 to 1200
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Number of log events within the throttle interval
Context	**configure** log throttle-rate limit *number*
Tree	limit
Range	1 to 20000
Default	2000
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.15 macsec commands

```
configure
   - macsec
      - apply-groups reference
      - apply-groups-exclude reference
      - connectivity-association string
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - cipher-suite keyword
         - clear-tag-mode keyword
         - delay-protection boolean
         - description string
         - encryption-offset number
         - macsec-encrypt boolean
         - mka-hello-interval keyword
         - mka-key-server-priority number
         - replay-protection boolean
         - replay-window-size number
         - static-cak
            - active-psk number
            - apply-groups reference
            - apply-groups-exclude reference
            - keychain
               - primary reference
            - pre-shared-key number
               - apply-groups reference
               - apply-groups-exclude reference
               - cak encrypted-leaf-hex-without-prefix
               - cak-name cak-name
               - encryption-type keyword
      - mac-policy number
         - apply-groups reference
         - apply-groups-exclude reference
         - destination-mac-address mac-address
```


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4.15.1 macsec command descriptions

macsec

Synopsis	Enter the **macsec** context
Context	**configure** macsec
Tree	macsec
Introduced	25.3.R2
Platforms	SAR Gen 2

connectivity-association [ca-name] *string*

Synopsis	Enter the **connectivity-association** list instance
Context	**configure** macsec connectivity-association *string*
Tree	connectivity-association
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-name**] *string*

Synopsis	Connectivity association name
Context	**configure** macsec connectivity-association *string*
Tree	connectivity-association
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the connectivity association
Context	**configure** macsec connectivity-association *string* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cipher-suite *keyword*

Synopsis	Data path encryption algorithm
Context	**configure** macsec connectivity-association *string* cipher-suite *keyword*
Tree	cipher-suite
Options	gcm-aes-128, gcm-aes-256, gcm-aes-xpn-128, gcm-aes-xpn-256
Default	gcm-aes-128
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-tag-mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Clear tag mode for clear text before the SecTAG
Context	**configure** macsec connectivity-association *string* clear-tag-mode *keyword*
Tree	clear-tag-mode
Options	none, single-tag, dual-tag
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-protection *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable delay protection
Context	**configure** macsec connectivity-association *string* delay-protection *boolean*

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Tree	delay-protection
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *string*

Synopsis	Text description
Context	**configure** macsec connectivity-association *string* description *string*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-offset *number*

Synopsis	Confidentiality (encryption) offset
Context	**configure** macsec connectivity-association *string* encryption-offset *number*
Tree	encryption-offset
Range	0 | 30 | 50
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

macsec-encrypt *boolean*

Synopsis	Encrypt and authenticate all PDUs
Context	**configure** macsec connectivity-association *string* macsec-encrypt *boolean*
Tree	macsec-encrypt
Description	When configured to **true**, all PDUs are encrypted and authenticated. When configured to **false**, all PDUs are transmitted in clear text, however, they are still authenticated and have the trailing ICV.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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mka-hello-interval *keyword*

Synopsis	Interval used for MKA hello by the MKA protocol.
Context	**configure** macsec connectivity-association *string* mka-hello-interval *keyword*
Tree	mka-hello-interval
Options	1, 2, 3, 4, 5, 6, 500ms
Default	2
Introduced	26.3.R1
Platforms	SAR Gen 2

mka-key-server-priority *number*

Synopsis	Key server priority used by the MKA protocol
Context	**configure** macsec connectivity-association *string* mka-key-server-priority *number*
Tree	mka-key-server-priority
Description	This command specifies the key server priority used by the MACsec Key Agreement (MKA) protocol to select the key server when MACsec is enabled using static connectivity association key (CAK) security mode.
Range	0 to 255
Default	16
Introduced	26.3.R1
Platforms	SAR Gen 2

replay-protection *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Discard packet when not within the replay window size
Context	**configure** macsec connectivity-association *string* replay-protection *boolean*
Tree	replay-protection
Description	When configured to **true**, replay protection is enabled and packets are discarded when they are not within the replay window size. With replay protection, the sequence of the ID number of received packets is checked. If a packet arrives out of sequence and the difference between the packet IDs exceeds the replay protection window size, the packet is counted by the receiving port and

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discarded. For example if the replay protection window size is configured to five and a packet with an ID of 1006 arrives on the receiving link immediately following the packet assigned an ID of 1000, the packet with ID 1006 is counted and discarded because it is outside the parameter of the window size.

Replay protection is particularly useful for addressing man-in-the-middle attacks. A packet that is replayed by a man-in-the-middle attacker on the Ethernet link that arrives on the receiving link out of sequence will be detected and dropped instead of forwarded through the network.

Replay protection should not be enabled in cases where packets are expected to arrive out of order.

When configured to **false**, replay protection is not enabled.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replay-window-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Replay protection window size
Context	**configure** macsec connectivity-association *string* replay-window-size *number*
Tree	replay-window-size
Range	0 to 4294967294
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

static-cak

Synopsis	Enter the **static-cak** context
Context	**configure** macsec connectivity-association *string* static-cak
Tree	static-cak
Description	Commands in this context configure the Connectivity Association Key (CAK) to manage the MACsec Key Agreement (MKA).
Introduced	25.3.R2
Platforms	SAR Gen 2

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active-psk *number*

Synopsis	Active pre-shared-key (PSK)
Context	**configure** macsec connectivity-association *string* static-cak active-psk *number*
Tree	active-psk
Description	This command specifies the active transmitting PSK. If two PSKs are configured, the arriving MACsec MKA can be decrypted via CAKs using either PSK; however, only the active PSK is used for TX encryption of MKA PDUs.
Range	1 to 2
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

keychain

Synopsis	Enter the **keychain** context
Context	**configure** macsec connectivity-association *string* static-cak keychain
Tree	keychain
Introduced	25.10.R1
Platforms	SAR Gen 2

primary *reference*

Synopsis	Keychain name for primary use
Context	**configure** macsec connectivity-association *string* static-cak keychain primary *reference*
Tree	primary
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.10.R1
Platforms	SAR Gen 2

pre-shared-key [psk-id] *number*

Synopsis	Enter the **pre-shared-key** list instance
Context	**configure** macsec connectivity-association *string* static-cak pre-shared-key *number*
Tree	pre-shared-key

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Description	Commands in this context configure pre-shared key attributes to enable MACsec using static connectivity association key (CAK) security mode. A pre-shared key includes a connectivity association key name (CKN) and a connectivity association key (CAK). The pre-shared key, the CKN and the CAK, must match on both ends of a link. A pre-shared key is configured on both devices at each end of a point-to-point link to enable MACsec via static CAK security mode. The MACsec Key Agreement (MKA) protocol is enabled after the successful MKA liveliness negotiation. The encryption type is used to encrypt the SAK and authenticate the MKA packet. The symmetric encryption key SAK (Security Association Key) must be encrypted (wrapped) via the MKA protocols. The AES key is derived from the pre-shared-key.
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**psk-id**] *number*

Synopsis	Pre-shared-key (PSK) ID
Context	**configure** macsec connectivity-association *string* static-cak pre-shared-key *number*
Tree	pre-shared-key
Range	1 to 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cak *encrypted-leaf-hex-without-prefix*

Synopsis	Connectivity association key (CAK) for the PSK
Context	**configure** macsec connectivity-association *string* static-cak pre-shared-key *number* cak *encrypted-leaf-hex-without-prefix*
Tree	cak
Description	This command specifies the connectivity association key (CAK) for the pre-shared key. Two values are derived from the CAK: • Key Encryption Key (KEK), used to encrypt the MKA and SAK (symmetric key used for data path PDUs) distributed between all members • Integrity Check Value (ICV), used to authenticate the MKA and SAK PDUs distributed between all members

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	This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 126
String format	'encrypted-leaf-hex-without-prefix' must have clear text in hex without 0x or end with hash/hash2/hash3/custom
Introduced	25.3.R2
Platforms	SAR Gen 2

cak-name *cak-name*

Synopsis	Connectivity association key name (CKN) for the PSK
Context	**configure** macsec connectivity-association *string* static-cak pre-shared-key *number* cak-name *cak-name*
Tree	cak-name
Description	This command specifies the connectivity association key name (CKN) for the pre-shared key. The CKN is appended to the MKA for identification of the appropriate CAK by the peer.
String length	1 to 64
String format	'cak-name' must be even-length hex up to 64 characters (e.g. 0a1b2c)
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-type *keyword*

Synopsis	Encryption for authentication of the MKA packet
Context	**configure** macsec connectivity-association *string* static-cak pre-shared-key *number* encryption-type *keyword*
Tree	encryption-type
Options	aes-128-cmac, aes-256-cmac
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-policy [mac-policy-id] *number*

Synopsis	Enter the **mac-policy** list instance

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Context	**configure** macsec mac-policy *number*
Tree	mac-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-policy-id**] *number*

Synopsis	MAC address policy ID
Context	**configure** macsec mac-policy *number*
Tree	mac-policy
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-mac-address [dest-mac-addr] *mac-address*

Synopsis	Add a list entry for **destination-mac-address**
Context	**configure** macsec mac-policy *number* destination-mac-address *mac-address*
Tree	destination-mac-address
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dest-mac-addr**] *mac-address*

Synopsis	Destination MAC address added to the MAC policy
Context	**configure** macsec mac-policy *number* destination-mac-address *mac-address*
Tree	destination-mac-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.16 mirror commands

```
configure
   – mirror
      – apply-groups reference
      – apply-groups-exclude reference
      – mirror-dest service-name
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – description description
         – encap
         – endpoint named-item
            – apply-groups reference
            – apply-groups-exclude reference
            – description description
            – revert-time (number | keyword)
         – fc keyword
         – pcap named-item
            – apply-groups reference
            – apply-groups-exclude reference
            – file-url ts-url-or-sftp-512
            – router-instance named-item-64
         – remote-source
            – far-end ipv4-address
               – apply-groups reference
               – apply-groups-exclude reference
               – ing-vc-label number
               – label-signaling keyword
               – vc-id number
            – spoke-sdp sdp-bind-id
               – admin-state keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – control-word boolean
               – egress
                  – vc-label number
               – endpoint
                  – name reference
               – ingress
                  – vc-label number
         – sap sap
            – apply-groups reference
            – apply-groups-exclude reference
            – egress
               – ip-mirror
                  – mac
                     – destination mac-address
                     – source mac-unicast-address
               – qos
                  – sap-egress
                     – policy-name reference
                     – port-redirect-group
                        – group-name reference
                        – instance number
            – endpoint reference
         – service-id number
         – slice-size number
         – spoke-sdp sdp-bind-id
            – admin-state keyword
            – apply-groups reference
```


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configure mirror mirror-dest spoke-sdp apply-groups-exclude

```
            - apply-groups-exclude reference
            - egress
               - vc-label number
            - endpoint
               - name reference
               - precedence (number | keyword)
         - type keyword
      - mirror-source service-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - ip-filter reference
            - apply-groups reference
            - apply-groups-exclude reference
            - entry number
         - ipv6-filter reference
            - apply-groups reference
            - apply-groups-exclude reference
            - entry number
         - port mirror-source-port-lag-key
            - apply-groups reference
            - apply-groups-exclude reference
            - egress boolean
            - ingress boolean
         - sap sap
            - apply-groups reference
            - apply-groups-exclude reference
            - egress boolean
            - ingress boolean
```


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4.16.1 mirror command descriptions

mirror

Synopsis	Enter the **mirror** context
Context	**configure** mirror
Tree	mirror
Introduced	25.3.R2
Platforms	SAR Gen 2

mirror-dest [service-name] *service-name*

Synopsis	Enter the **mirror-dest** list instance
Context	**configure** mirror mirror-dest *service-name*
Tree	mirror-dest
Description	Commands in this context set up a packet mirroring service to allow mirrored packets to be directed locally (within the same router) or remotely (over the core of the network and with a far-end decode mirror encapsulation). The mirror destination service is composed of destination options that define where the mirrored packets are sent. It also specifies whether the defined service will receive mirrored packets from a far-end router over the network core. The mirror destination services are persistent between boots of the router and are included in the configuration saves.
Max. instances	255
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** mirror mirror-dest *service-name*
Tree	mirror-dest
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the service
Context	**configure** mirror mirror-dest *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** mirror mirror-dest *service-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

encap

Synopsis	Enter the **encap** context
Context	**configure** mirror mirror-dest *service-name* encap
Tree	encap
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint [name] *named-item*

Synopsis	Enter the **endpoint** list instance
Context	**configure** mirror mirror-dest *service-name* endpoint *named-item*

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Tree	endpoint
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Service endpoint name
Context	**configure** mirror mirror-dest *service-name* endpoint *named-item*
Tree	endpoint
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** mirror mirror-dest *service-name* endpoint *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-time *(number | keyword)*

Synopsis	Time to wait before reverting back to primary spoke SDP
Context	**configure** mirror mirror-dest *service-name* endpoint *named-item* revert-time *(number | keyword)*
Tree	revert-time
Range	1 to 600
Units	seconds

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Options	never, immediate
Default	immediate
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class for destination traffic
Context	**configure** mirror mirror-dest *service-name* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	SAR Gen 2

pcap [session-name] *named-item*

Synopsis	Enter the **pcap** list instance
Context	**configure** mirror mirror-dest *service-name* pcap *named-item*
Tree	pcap
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**session-name**] *named-item*

Synopsis	PCAP session name
Context	**configure** mirror mirror-dest *service-name* pcap *named-item*
Tree	pcap

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

file-url *ts-url-or-sftp-512*

Synopsis	URL and file name for packet capture transfer
Context	**configure** mirror mirror-dest *service-name* pcap *named-item* file-url *ts-url-or-sftp-512*
Tree	file-url
String length	1 to 512
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *named-item-64*

Synopsis	Router name used for FTP transmission of the PCAP file
Context	**configure** mirror mirror-dest *service-name* pcap *named-item* router-instance *named-item-64*
Tree	router-instance
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-source

Synopsis	Enable the **remote-source** context
Context	**configure** mirror mirror-dest *service-name* remote-source
Tree	remote-source
Introduced	25.3.R2
Platforms	SAR Gen 2

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far-end [far-end-addr] *ipv4-address*

Synopsis	Enter the **far-end** list instance
Context	**configure** mirror mirror-dest *service-name* remote-source far-end *ipv4-address*
Tree	far-end
Introduced	25.3.R2
Platforms	SAR Gen 2

[**far-end-addr**] *ipv4-address*

Synopsis	Far end IP address
Context	**configure** mirror mirror-dest *service-name* remote-source far-end *ipv4-address*
Tree	far-end
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ing-vc-label *number*

Synopsis	Ingress virtual circuit label
Context	**configure** mirror mirror-dest *service-name* remote-source far-end *ipv4-address* ing-vc-label *number*
Tree	ing-vc-label
Range	1 to 1048575
Notes	The following elements are part of a choice: **ing-vc-label** or **label-signaling**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label-signaling *keyword*

Synopsis	Protocol to obtain the ingress labels
Context	**configure** mirror mirror-dest *service-name* remote-source far-end *ipv4-address* label-signaling *keyword*
Tree	label-signaling

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Options	tldp
Default	tldp
Notes	The following elements are part of a choice: **ing-vc-label** or **label-signaling**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-id *number*

Synopsis	Virtual circuit ID associated with the remote source
Context	**configure** mirror mirror-dest *service-name* remote-source far-end *ipv4-address* vc-id *number*
Tree	vc-id
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP ID number
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the service SDP binding
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

Synopsis	Enable the PW control word on spoke SDPs
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* control-word *boolean*
Tree	control-word
Description	When configured to **true**, this command enables the PW control word on spoke SDPs that are part of a mirror destination. The control word must be enabled to allow MPLS-TP OAM on spoke SDP and is only valid for spoke SDPs that are part of a mirror service of type **ether**. When configured to **false**, this command disables the PW control word.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

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vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MPLS VC label that sends packets to the far end device
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint

Synopsis	Enter the **endpoint** context
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* endpoint
Tree	endpoint
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	SAP-associated endpoint name
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* endpoint name *reference*
Tree	name
Reference	**configure** mirror mirror-dest *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context

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Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MPLS VC label that sends packets to the far end device
Context	**configure** mirror mirror-dest *service-name* remote-source spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** mirror mirror-dest *service-name* sap *sap*
Tree	sap
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	**configure** mirror mirror-dest *service-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mirror

Synopsis	Enter the **ip-mirror** context
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress ip-mirror
Tree	ip-mirror
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Enter the **mac** context
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress ip-mirror mac
Tree	mac
Introduced	25.3.R2
Platforms	SAR Gen 2

destination *mac-address*

Synopsis	Destination MAC address
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress ip-mirror mac destination *mac-address*
Tree	destination
Introduced	25.3.R2
Platforms	SAR Gen 2

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source *mac-unicast-address*

Synopsis	Source MAC address
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress ip-mirror mac source *mac-unicast-address*
Tree	source
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-egress

Synopsis	Enter the **sap-egress** context
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress qos sap-egress
Tree	sap-egress
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID to associate with SAP for mirrored service
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress qos sap-egress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress qos sap-egress port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the queue group redirect list policy
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress qos sap-egress port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Port queue group instance
Context	**configure** mirror mirror-dest *service-name* sap *sap* egress qos sap-egress port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *reference*

Synopsis	Service endpoint name
Context	**configure** mirror mirror-dest *service-name* sap *sap* endpoint *reference*
Tree	endpoint
Reference	**configure** mirror mirror-dest *service-name* endpoint *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

service-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** mirror mirror-dest *service-name* service-id *number*
Tree	service-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

slice-size *number*

Synopsis	Maximum size of the transmitted mirrored frame
Context	**configure** mirror mirror-dest *service-name* slice-size *number*
Tree	slice-size
Range	0 | 128 to 9216
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP ID number

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Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the service SDP binding
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MPLS VC label that sends packets to the far end device
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label

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Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint

Synopsis	Enter the **endpoint** context
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id* endpoint
Tree	endpoint
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Endpoint name associated with the SAP
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id* endpoint name *reference*
Tree	name
Reference	**configure** mirror mirror-dest *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

precedence *(number | keyword)*

Synopsis	Precedence when multiple SDP binds are on one endpoint
Context	**configure** mirror mirror-dest *service-name* spoke-sdp *sdp-bind-id* endpoint precedence *(number | keyword)*
Tree	precedence
Range	1 to 4
Options	primary
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Mirror type information
Context	**configure** mirror mirror-dest *service-name* type *keyword*
Tree	type
Options	ether, ip-only
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

mirror-source [service-name] *service-name*

Synopsis	Enter the **mirror-source** list instance
Context	**configure** mirror mirror-source *service-name*
Tree	mirror-source
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** mirror mirror-source *service-name*
Tree	mirror-source
Description	This command creates or edits a service instance. When a service is created, the **customer** keyword and *customer-id* must be specified and associates the service with a customer. The *customer-id* must already exist having been created using the customer command in the service context. When a service is created with a customer association, it is not possible to edit the customer association. The service must be deleted and re-created with a new customer association. When a service is created, the use of the **customer***customer-id* is optional to navigate into the service configuration context. If attempting to edit a service with the incorrect *customer-id* results in an error. This command specifies the unique service identification number identifying the service in the service domain. This ID must be unique to this service and may not be used for

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any other service of any type. The service ID must be the same number used for every platform on which this service is defined.

String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the mirror service
Context	**configure** mirror mirror-source *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-filter [filter-name] *reference*

Synopsis	Enter the **ip-filter** list instance
Context	**configure** mirror mirror-source *service-name* ip-filter *reference*
Tree	ip-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *reference*

Synopsis	IP filter name
Context	**configure** mirror mirror-source *service-name* ip-filter *reference*
Tree	ip-filter
Reference	**configure** filter ip-filter *filter-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [entry-id] *number*

Synopsis	Add a list entry for **entry**
Context	**configure** mirror mirror-source *service-name* ip-filter *reference* entry *number*
Tree	entry
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IP filter entry ID
Context	**configure** mirror mirror-source *service-name* ip-filter *reference* entry *number*
Tree	entry
Range	1 to 2097151
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-filter [filter-name] *reference*

Synopsis	Enter the **ipv6-filter** list instance
Context	**configure** mirror mirror-source *service-name* ipv6-filter *reference*
Tree	ipv6-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *reference*

Synopsis	IPv6 filter name
Context	**configure** mirror mirror-source *service-name* ipv6-filter *reference*
Tree	ipv6-filter
Reference	**configure** filter ipv6-filter *filter-name*
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Add a list entry for **entry**
Context	**configure** mirror mirror-source *service-name* ipv6-filter *reference* entry *number*
Tree	entry
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IPv6 filter entry ID
Context	**configure** mirror mirror-source *service-name* ipv6-filter *reference* entry *number*
Tree	entry
Range	1 to 2097151
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port [port-id] *mirror-source-port-lag-key*

Synopsis	Enter the **port** list instance
Context	**configure** mirror mirror-source *service-name* port *mirror-source-port-lag-key*
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

[**port-id**] *mirror-source-port-lag-key*

Synopsis	Port ID
Context	**configure** mirror mirror-source *service-name* port *mirror-source-port-lag-key*

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Tree	port
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress *boolean*

Synopsis	Mirror egress packets
Context	**configure** mirror mirror-source *service-name* port *mirror-source-port-lag-key* egress *boolean*
Tree	egress
Description	When configured to **true**, egressing packets are mirrored. Egress packets are mirrored to the mirror destination after egress packet modification.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Mirror ingress packets
Context	**configure** mirror mirror-source *service-name* port *mirror-source-port-lag-key* ingress *boolean*
Tree	ingress
Description	When configured to **true**, ingressing packets are mirrored. Ingress packets are mirrored to the mirror destination before ingress packet modification.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** mirror mirror-source *service-name* sap *sap*
Tree	sap
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**sap-id**] *sap*

Synopsis	SAP ID
Context	**configure** mirror mirror-source *service-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress *boolean*

Synopsis	Mirror egress packets
Context	**configure** mirror mirror-source *service-name* sap *sap* egress *boolean*
Tree	egress
Description	When configured to **true**, egressing packets are mirrored. Egress packets are mirrored to the mirror destination after egress packet modification.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress *boolean*

Synopsis	Mirror ingress packets
Context	**configure** mirror mirror-source *service-name* sap *sap* ingress *boolean*
Tree	ingress
Description	When configured to **true**, ingressing packets are mirrored. Ingress packets are mirrored to the mirror destination before ingress packet modification.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.17 oam-pm commands

```
configure
   – oam-pm
      – apply-groups reference
      – apply-groups-exclude reference
      – bin-group number
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – bin-type keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – bin number
               – apply-groups reference
               – apply-groups-exclude reference
               – lower-bound number
            – delay-event keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – clear-threshold number
               – exclude-lowest-bin number
               – lowest-bin number
               – raise-threshold number
            – exclude-from-avg keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – bins string
         – description description
      – session named-item
         – apply-groups reference
         – apply-groups-exclude reference
         – bin-group reference
         – description description
         – ethernet
            – dest-mac mac-unicast-address
            – dmm
               – admin-state keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – data-tlv-size number
               – interval number
               – test-duration number
               – test-id (number | keyword)
            – priority number
            – remote-mep number
            – slm
               – admin-state keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – data-tlv-size number
               – flr-threshold number
               – hli-force-count boolean
               – interval number
               – loss-events
                  – avg-flr-event keyword
                     – apply-groups reference
                     – apply-groups-exclude reference
                     – clear-threshold decimal-number
                     – raise-threshold decimal-number
                  – chli-event keyword
```


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```
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - hli-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - unavailability-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - undet-availability-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - undet-unavailability-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
            - test-duration number
            - test-id (number | keyword)
            - timing
               - chli-threshold number
               - consec-delta-t number
               - frames-per-delta-t number
         - source
            - ma-admin-name (named-item-64 | admin-name)
            - md-admin-name (named-item-64 | admin-name)
            - mep number
      - ip
         - allow-egress-remark-dscp boolean
         - destination (ipv4-address-no-zone | ipv6-address-no-zone)
         - destination-udp-port number
         - do-not-fragment boolean
         - dscp (keyword | keyword)
         - fc keyword
         - forwarding
            - bypass-routing
            - interface interface-name
            - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
         - pattern (keyword | number)
         - profile keyword
         - router-instance string
         - source (ipv4-address-no-zone | ipv6-address-no-zone)
         - source-udp-port number
         - ttl number
         - tunnel
            - mpls
               - rsvp-te
                  - lsp named-item-64
               - rsvp-te-auto
                  - from ipv4-unicast-address
                  - lsp-template named-item
                  - to ipv4-unicast-address
               - sr-isis
                  - flex-algo number
                  - igp-instance number
                  - prefix (ipv4-prefix | ipv6-prefix)
               - sr-ospf
```


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```
                  - flex-algo number
                  - igp-instance number
                  - prefix ipv4-unicast-prefix
               - sr-policy
                  - color number
                  - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
                  - segment-list number
               - sr-te
                  - lsp named-item-64
         - twamp-light
            - admin-state keyword
            - allow-ipv6-udp-checksum-zero boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - interval number
            - loss
               - flr-threshold number
               - hli-force-count boolean
               - timing
                  - chli-threshold number
                  - consec-delta-t number
                  - frames-per-delta-t number
            - loss-events
               - avg-flr-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold decimal-number
                  - raise-threshold decimal-number
               - chli-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - hli-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - unavailability-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - undet-availability-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
               - undet-unavailability-event keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-threshold number
                  - raise-threshold number
            - pad-size number
            - pad-tlv-size number
            - record-stats keyword
            - session-sender-type keyword
            - test-duration number
            - test-id (number | keyword)
            - timestamp-format keyword
      - measurement-interval keyword
         - accounting-policy reference
         - apply-groups reference
         - apply-groups-exclude reference
```


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configure oam-pm session measurement-interval boundary-type

```
            - boundary-type keyword
            - clock-offset number
            - intervals-stored number
            - threshold-cross-alerts
               - admin-state keyword
               - delay-events boolean
               - loss-events boolean
         - session-type keyword
```


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4.17.1 oam-pm command descriptions

oam-pm

Synopsis	Enter the **oam-pm** context
Context	**configure** oam-pm
Tree	oam-pm
Description	Commands in this context configure proactive and on-demand tests used to gather the performance and statistical information and define storage parameters (including binning structures).
Introduced	25.3.R2
Platforms	SAR Gen 2

bin-group [bin-group-id] *number*

Synopsis	Enter the **bin-group** list instance
Context	**configure** oam-pm bin-group *number*
Tree	bin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bin-group-id**] *number*

Synopsis	Bin group ID
Context	**configure** oam-pm bin-group *number*
Tree	bin-group
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the bin group
Context	**configure** oam-pm bin-group *number* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bin-type [bin-metric] *keyword*

Synopsis	Enter the **bin-type** list instance
Context	**configure** oam-pm bin-group *number* bin-type *keyword*
Tree	bin-type
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bin-metric**] *keyword*

Synopsis	Delay metric bin structure
Context	**configure** oam-pm bin-group *number* bin-type *keyword*
Tree	bin-type
Options	fd – Frame Delay fdr – Frame Delay Range ifdv – Inter-Frame Delay Variation
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bin [bin-number] *number*

Synopsis	Enter the **bin** list instance
Context	**configure** oam-pm bin-group *number* bin-type *keyword* bin *number*
Tree	bin
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bin-number**] *number*

Synopsis	Bin number

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Context	**configure** oam-pm bin-group *number* bin-type *keyword* bin *number*
Tree	bin
Range	0 to 9
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

lower-bound *number*

Synopsis	Lower bound for the bin
Context	**configure** oam-pm bin-group *number* bin-type *keyword* bin *number* lower-bound *number*
Tree	lower-bound
Range	0 | 1 to 4294967295
Units	microseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-event [direction] *keyword*

Synopsis	Enter the **delay-event** list instance
Context	**configure** oam-pm bin-group *number* bin-type *keyword* delay-event *keyword*
Tree	delay-event
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction of the OAM-PM test or metric
Context	**configure** oam-pm bin-group *number* bin-type *keyword* delay-event *keyword*
Tree	delay-event
Options	forward, backward, round-trip
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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clear-threshold *number*

Synopsis	OAM-PM clear threshold for an excessive delay
Context	**configure** oam-pm bin-group *number* bin-type *keyword* delay-event *keyword* clear-threshold *number*
Tree	clear-threshold
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-lowest-bin *number*

Synopsis	Lowest bin excluded from the TCA count
Context	**configure** oam-pm bin-group *number* bin-type *keyword* delay-event *keyword* exclude-lowest-bin *number*
Tree	exclude-lowest-bin
Range	1 to 9
Introduced	25.3.R2
Platforms	SAR Gen 2

lowest-bin *number*

Synopsis	Lowest delay bin used when applying a delay threshold
Context	**configure** oam-pm bin-group *number* bin-type *keyword* delay-event *keyword* lowest-bin *number*
Tree	lowest-bin
Range	0 to 9
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Raise threshold for excessive delay
Context	**configure** oam-pm bin-group *number* bin-type *keyword* delay-event *keyword* raise-threshold *number*

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Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-from-avg [direction] *keyword*

Synopsis	Enter the **exclude-from-avg** list instance
Context	**configure** oam-pm bin-group *number* bin-type *keyword* exclude-from-avg *keyword*
Tree	exclude-from-avg
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction of the OAM-PM test or metric
Context	**configure** oam-pm bin-group *number* bin-type *keyword* exclude-from-avg *keyword*
Tree	exclude-from-avg
Options	forward, backward, round-trip
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bins *string*

Synopsis	Bin numbers excluded from the average calculation
Context	**configure** oam-pm bin-group *number* bin-type *keyword* exclude-from-avg *keyword* bins *string*
Tree	bins
String length	1 to 39
String format	'bins' must be all, comma-separated bin numbers, or ranges (0-9)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** oam-pm bin-group *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

session [session-name] *named-item*

Synopsis	Enter the **session** list instance
Context	**configure** oam-pm session *named-item*
Tree	session
Description	Commands in this context create the individual session containers that house the test specific configuration parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**session-name**] *named-item*

Synopsis	OAM-PM session name
Context	**configure** oam-pm session *named-item*
Tree	session
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bin-group *reference*

Synopsis	Bin group for the session
Context	**configure** oam-pm session *named-item* bin-group *reference*

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Tree	bin-group
Reference	**configure** oam-pm bin-group *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** oam-pm session *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ethernet

Synopsis	Enable the **ethernet** context
Context	**configure** oam-pm session *named-item* ethernet
Tree	ethernet
Description	Commands in this context configure the Ethernet specific source and destination information, the priority, and the Ethernet tests tools on the launch point.
Notes	The following elements are part of a mandatory choice: **ethernet**, **ip**, or **mpls**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-mac *mac-unicast-address*

Synopsis	Destination MAC address for the session
Context	**configure** oam-pm session *named-item* ethernet dest-mac *mac-unicast-address*
Tree	dest-mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

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dmm

Synopsis	Enable the **dmm** context
Context	**configure** oam-pm session *named-item* ethernet dmm
Tree	dmm
Description	Commands in this context configure the delay measurement message test command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the test
Context	**configure** oam-pm session *named-item* ethernet dmm admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

data-tlv-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Data TLV size in the frames sent for the test
Context	**configure** oam-pm session *named-item* ethernet dmm data-tlv-size *number*
Tree	data-tlv-size
Description	This command configures a Data TLV to PDU and increases the frame on the wire by the specified amount. **Note:** This command only configures the size of the padding added to the PDU and does not configure the total size of the frame on the wire.
Range	0 | 3 to 2000
Units	octets
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between transmission PDUs for the session test
Context	**configure** oam-pm session *named-item* ethernet dmm interval *number*
Tree	interval
Description	This command configures the message period or probe spacing for the transmission of a frame.
Range	50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 10000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

test-duration *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Duration of an on-demand test
Context	**configure** oam-pm session *named-item* ethernet dmm test-duration *number*
Tree	test-duration
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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test-id *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Test ID
Context	**configure** oam-pm session *named-item* ethernet dmm test-id *(number | keyword)*
Tree	test-id
Description	[None]
Range	0 to 2147483647
Options	auto – Automatically assign a test ID
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority and forwarding class for the session
Context	**configure** oam-pm session *named-item* ethernet priority *number*
Tree	priority
Range	0 to 7
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-mep *number*

Synopsis	Remote MEP for the session
Context	**configure** oam-pm session *named-item* ethernet remote-mep *number*
Tree	remote-mep
Range	1 to 8191
Introduced	25.3.R2
Platforms	SAR Gen 2

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slm

Synopsis	Enable the **slm** context
Context	**configure** oam-pm session *named-item* ethernet slm
Tree	slm
Description	Commands in this context configure the synthetic loss measurement (SLM) test and create the container used to configure the individual test parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the test
Context	**configure** oam-pm session *named-item* ethernet slm admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

data-tlv-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Data TLV size in the frames sent for the test
Context	**configure** oam-pm session *named-item* ethernet slm data-tlv-size *number*
Tree	data-tlv-size
Description	This command configures a Data TLV to PDU and increases the frame on the wire by the specified amount. **Note:** This command only configures the size of the padding added to the PDU and does not configure the total size of the frame on the wire.
Range	0 | 3 to 2000
Units	octets
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

flr-threshold *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FLR threshold for the test
Context	**configure** oam-pm session *named-item* ethernet slm flr-threshold *number*
Tree	flr-threshold
Description	This command configures the Frame Loss Ratio (FLR) threshold used to determine whether the Delta-T is high loss. An individual Delta-T with a frame loss threshold equal to the configured threshold is marked high loss. An individual Delta-T with a frame loss threshold lower than the configured threshold is not marked as high loss.
Range	0 to 100
Units	percent
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

hli-force-count *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Increment HLI and CHLI counters despite availability
Context	**configure** oam-pm session *named-item* ethernet slm hli-force-count *boolean*
Tree	hli-force-count
Description	When configured to **true**, the router uses High Loss Interval (HLI) and Consecutive High Loss Interval (CHLI) counters to increment regardless of availability. Without this command, HLI and CHLI counters can only increment during times of availability, which includes undetermined availability.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between transmission PDUs for the session test
Context	**configure** oam-pm session *named-item* ethernet slm interval *number*
Tree	interval
Description	This command configures the message period or probe spacing for the transmission of a frame.
Range	50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

loss-events

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **loss-events** context
Context	**configure** oam-pm session *named-item* ethernet slm loss-events
Tree	loss-events
Description	Commands in this context define the loss events and thresholds that are to be tracked.
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-flr-event [direction] *keyword*

Synopsis	Enter the **avg-flr-event** list instance
Context	**configure** oam-pm session *named-item* ethernet slm loss-events avg-flr-event *keyword*
Tree	avg-flr-event
Description	Commands in this context configure the frame loss ratio threshold to be applied and checked at the end of the measurement interval for the specified direction. This is a percentage based on the average frame loss ratio over the entire measurement interval.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ethernet slm loss-events avg-flr-event *keyword*
Tree	avg-flr-event
Options	forward, backward
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *decimal-number*

Synopsis	Clear threshold for the average FLR
Context	**configure** oam-pm session *named-item* ethernet slm loss-events avg-flr-event *keyword* clear-threshold *decimal-number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when to generate the clear event. If this command is not specified, the traffic crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and without regard to any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to the following measurement intervals. If a threshold crossing event is raised another is not raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0.000 to 99.999
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

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raise-threshold *decimal-number*

Synopsis	Rising threshold for the average FLR
Context	**configure** oam-pm session *named-item* ethernet slm loss-events avg-flr-event *keyword* raise-threshold *decimal-number*
Tree	raise-threshold
Description	This command configures the rising percentage that determines when the event is to be generated.
Range	0.000 to 100.000
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

chli-event [direction] *keyword*

Synopsis	Enter the **chli-event** list instance
Context	**configure** oam-pm session *named-item* ethernet slm loss-events chli-event *keyword*
Tree	chli-event
Description	Commands in this context configure the CHLI threshold to be monitored and the associated thresholds using the counter of the specified direction.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ethernet slm loss-events chli-event *keyword*
Tree	chli-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ethernet slm loss-events chli-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ethernet slm loss-events chli-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

hli-event [direction] *keyword*

Synopsis	Enter the **hli-event** list instance
Context	**configure** oam-pm session *named-item* ethernet slm loss-events hli-event *keyword*
Tree	hli-event

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Description	Commands in this context configure the HLI threshold to be monitored and the associated thresholds using the counter of the specified direction.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ethernet slm loss-events hli-event *keyword*
Tree	hli-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ethernet slm loss-events hli-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

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raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ethernet slm loss-events hli-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unavailability-event [direction] *keyword*

Synopsis	Enter the **unavailability-event** list instance
Context	**configure** oam-pm session *named-item* ethernet slm loss-events unavailability-event *keyword*
Tree	unavailability-event
Description	Commands in this context configure the threshold to be applied to the overall count of the unavailability indicators, not transitions, per configured direction.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ethernet slm loss-events unavailability-event *keyword*
Tree	unavailability-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold

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Context	**configure** oam-pm session *named-item* ethernet slm loss-events unavailability-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ethernet slm loss-events unavailability-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

undet-availability-event [direction] *keyword*

Synopsis	Enter the **undet-availability-event** list instance
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-availability-event *keyword*
Tree	undet-availability-event
Description	Commands in this context configure the threshold to be applied to the overall count of the undetermined availability indicators, not transitions, per configured direction.
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-availability-event *keyword*
Tree	undet-availability-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-availability-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event

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Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-availability-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

undet-unavailability-event [direction] *keyword*

Synopsis	Enter the **undet-unavailability-event** list instance
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-unavailability-event *keyword*
Tree	undet-unavailability-event
Description	Commands in this context configure the threshold to be applied to the overall count of the undetermined unavailability indicators, not transitions, per configured direction.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-unavailability-event *keyword*
Tree	undet-unavailability-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-unavailability-event *keyword* clear-threshold *number*
Tree	clear-threshold

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Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ethernet slm loss-events undet-unavailability-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

test-duration *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Duration of an on-demand test
Context	**configure** oam-pm session *named-item* ethernet slm test-duration *number*
Tree	test-duration
Range	1 to 86400
Units	seconds
Introduced	25.3.R2

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Platforms	SAR Gen 2

test-id *(number | keyword)*

WARNING:
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Synopsis	Test ID
Context	**configure** oam-pm session *named-item* ethernet slm test-id *(number | keyword)*
Tree	test-id
Description	[None]
Range	0 to 2147483647
Options	auto – Automatically assign a test ID
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timing

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **timing** context
Context	**configure** oam-pm session *named-item* ethernet slm timing
Tree	timing
Description	Commands in this context define various availability parameters and the probe spacing (interval) for the SLM frames.
Introduced	25.3.R2
Platforms	SAR Gen 2

chli-threshold *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	CHLI threshold
Context	**configure** oam-pm session *named-item* ethernet slm timing chli-threshold *number*
Tree	chli-threshold
Description	This command configures the number of Consecutive High Loss Intervals (CHLI) that when equal to or exceeded increments the CHLI counter. A CHLI counter is an indication that the sliding window is available but has crossed a threshold consecutive of unavailable Delta-T intervals. A CHLI can only be incremented once during a sliding window and, by default, it is only incremented during times of availability.
Range	1 to 9
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

consec-delta-t *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Consecutive Delta-t intervals
Context	**configure** oam-pm session *named-item* ethernet slm timing consec-delta-t *number*
Tree	consec-delta-t
Description	This command configures the number of consecutive Delta-T small measurement intervals that make up the sliding window over which availability and unavailability is determined. Transitions from one state to another occurs when the this command is in a new state.
Range	2 to 10
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

frames-per-delta-t *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Frames sent in one Delta-T

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Context	**configure** oam-pm session *named-item* ethernet slm timing frames-per-delta-t *number*
Tree	frames-per-delta-t
Description	This command configures the number of SLM frames sent, defining the size of the Delta-T (small measurement window). Each Delta-T is marked as high loss or not high loss based on the FLR threshold. The size of the Delta-T measurement is the product of the number of frames and the interval.
Range	1 to 50
Units	frames
Introduced	25.3.R2
Platforms	SAR Gen 2

source

Synopsis	Enable the **source** context
Context	**configure** oam-pm session *named-item* ethernet source
Tree	source
Description	Commands in this context define the source MEP launch point command options that are used by the individual tests within the session. If an MEP matching the configuration does not exist, the session is allowed to become active; however, the frames sent and received and seen under the **show oam-pm statistics session***session-name* command are zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-admin-name *(named-item-64 | admin-name)*

Synopsis	Source Ethernet MA name
Context	**configure** oam-pm session *named-item* ethernet source ma-admin-name *(named-item-64 | admin-name)*
Tree	ma-admin-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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md-admin-name *(named-item-64 | admin-name)*

Synopsis	Source Ethernet MD name
Context	**configure** oam-pm session *named-item* ethernet source md-admin-name *(named-item-64 | admin-name)*
Tree	md-admin-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep *number*

Synopsis	Source Ethernet MEP ID
Context	**configure** oam-pm session *named-item* ethernet source mep *number*
Tree	mep
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enable the **ip** context
Context	**configure** oam-pm session *named-item* ip
Tree	ip
Notes	The following elements are part of a mandatory choice: **ethernet**, **ip**, or **mpls**.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-egress-remark-dscp *boolean*

Synopsis	Allow DSCP modification by the egress QoS policy
Context	**configure** oam-pm session *named-item* ip allow-egress-remark-dscp *boolean*

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Tree	allow-egress-remark-dscp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

destination *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination IP address for the session
Context	**configure** oam-pm session *named-item* ip destination *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	destination
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-udp-port *number*

Synopsis	Destination UDP port for the session
Context	**configure** oam-pm session *named-item* ip destination-udp-port *number*
Tree	destination-udp-port
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

do-not-fragment *boolean*

Synopsis	Do not allow packet fragmentation in the IPv4 header
Context	**configure** oam-pm session *named-item* ip do-not-fragment *boolean*
Tree	do-not-fragment
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *(keyword | keyword)*

Synopsis	DSCP value configured to the DSCP name

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Context	**configure** oam-pm session *named-item* ip dscp *(keyword | keyword)*
Tree	dscp
Description	This command allows for the explicit setting of the DSCP rather than deriving the DSCP value from the egress network QoS policy 1 using the **fc** and **profile** values. Although disconnected from the **fc** and **profile** settings unless required, the three parameters should be aligned to ensure proper treatment within the node and along the path.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Options	resolve
Default	resolve
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class for the session
Context	**configure** oam-pm session *named-item* ip fc *keyword*
Tree	fc
Options	be, l2, af, l1, h2, ef, h1, nc
Default	be
Introduced	25.3.R2
Platforms	SAR Gen 2

forwarding

Synopsis	Enable the **forwarding** context
Context	**configure** oam-pm session *named-item* ip forwarding
Tree	forwarding
Introduced	25.3.R2
Platforms	SAR Gen 2

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bypass-routing

Synopsis	Bypass the routing table when sending test packets
Context	**configure** oam-pm session *named-item* ip forwarding bypass-routing
Tree	bypass-routing
Notes	The following elements are part of a mandatory choice: **bypass-routing**, **interface**, or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Interface name
Context	**configure** oam-pm session *named-item* ip forwarding interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **bypass-routing**, **interface**, or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address for forwarding
Context	**configure** oam-pm session *named-item* ip forwarding next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a mandatory choice: **bypass-routing**, **interface**, or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *(keyword | number)*

Synopsis	Pattern used to fill the packet padding field
Context	**configure** oam-pm session *named-item* ip pattern *(keyword | number)*

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Tree	pattern
Range	0 to 65535
Options	sequential
Default	0 sequential
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Profile type for the session
Context	**configure** oam-pm session *named-item* ip profile *keyword*
Tree	profile
Options	in, out
Default	out
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router instance for the session
Context	**configure** oam-pm session *named-item* ip router-instance *string*
Tree	router-instance
Default	Base
Introduced	25.3.R2
Platforms	SAR Gen 2

source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address for the session
Context	**configure** oam-pm session *named-item* ip source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

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source-udp-port *number*

Synopsis	Source UDP port for the session
Context	**configure** oam-pm session *named-item* ip source-udp-port *number*
Tree	source-udp-port
Range	64374 to 64383
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl *number*

Synopsis	TTL value for the session
Context	**configure** oam-pm session *named-item* ip ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel

Synopsis	Enter the **tunnel** context
Context	**configure** oam-pm session *named-item* ip tunnel
Tree	tunnel
Description	Commands in this context configure packet tunneling options for the session. This command and the **oam-pm session ip forwarding** command are mutually exclusive.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls

Synopsis	Enable the **mpls** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls
Tree	mpls
Description	Commands in this context configure the MPLS packet tunneling options for the session. Configure the **oam-pm session ip router-instance** to Base to configure commands in

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the tunnel MPLS context. When entering a context under MPLS, the system removes any previous configuration of any sibling context. You can only configure one of the contexts for each OAM-PM session.

Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-te

Synopsis	Enable the **rsvp-te** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls rsvp-te
Tree	rsvp-te
Description	Commands in this context allow for the specification of RSVP-TE specific tunnel information used to transport the test packets. Entering this context removes all other tunnel-type options configured under the **configure oam-pm session ip tunnel mpls** context. Only a single MPLS type can be configured for an OAM-PM session.
Notes	The following elements are part of a choice: **rsvp-te**, **rsvp-te-auto**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp *named-item-64*

Synopsis	Name of LSP that carries the test packets
Context	**configure** oam-pm session *named-item* ip tunnel mpls rsvp-te lsp *named-item-64*
Tree	lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-te-auto

Synopsis	Enable the **rsvp-te-auto** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls rsvp-te-auto
Tree	rsvp-te-auto
Description	Commands in this context configure the RSVP-TE-Auto feature and **rsvp-te-auto** (RSVP TE with dynamically-created LSPs) packet tunneling options for the session. If you enter a context within the MPLS context, the system removes any previous

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	configuration of any sibling context. You can only configure one of the contexts for each OAM-PM session.
Notes	The following elements are part of a choice: **rsvp-te**, **rsvp-te-auto**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

from *ipv4-unicast-address*

Synopsis	IPv4 address used to identify the LSP to be tested
Context	**configure** oam-pm session *named-item* ip tunnel mpls rsvp-te-auto from *ipv4-unicast-address*
Tree	from
Description	This command configures the headend of the RSV LSP. Configure the following three commands to identify an RSVP-TE Auto LSP: **from**, **to**, and **lsp-template**. When all three of these values are configured, the specific RSVP LSP can be identified and the test packets can be carried across the tunnel.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-template *named-item*

Synopsis	LSP template used to identify the LSP to be tested
Context	**configure** oam-pm session *named-item* ip tunnel mpls rsvp-te-auto lsp-template *named-item*
Tree	lsp-template
Description	This command configures the name of the LSP template used to identify the unique LSP. Configure the following three commands to identify an RSVP-TE Auto LSP: **from**, **to**, and **lsp-template**. When all three of these values are configured, the specific RSVP LSP can be identified and the test packets can be carried across the tunnel.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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to *ipv4-unicast-address*

Synopsis	IPv4 unicast address to identify the LSP to be tested
Context	**configure** oam-pm session *named-item* ip tunnel mpls rsvp-te-auto to *ipv4-unicast-address*
Tree	to
Description	This command configures the termination point of the RSVP LSP. Configure the following three commands to identify an RSVP-TE Auto LSP: **from**, **to**, and **lsp-template**. When all three of these values are configured, the specific RSVP LSP can be identified and the test packets can be carried across the tunnel.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis

Synopsis	Enable the **sr-isis** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-isis
Tree	sr-isis
Description	Commands in this context allow for the specification of SR-ISIS specific tunnel information used to transport the test packets. Entering this context removes all the other tunnel type commands configured in the **configure oam-pm session ip tunnel mpls** context. Only a single MPLS type can be configured for an OAM-PM session.
Notes	The following elements are part of a choice: **rsvp-te**, **rsvp-te-auto**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo *number*

Synopsis	Flex-algorithm to tunnel IP packets for session tests
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-isis flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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igp-instance *number*

Synopsis	IGP instance used to tunnel IP packets
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-isis igp-instance *number*
Tree	igp-instance
Description	This command configures the IGP instance to tunnel IP packets for the session test.
Range	0 to 127
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix to tunnel IP packets for the session tests
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-isis prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Description	This command configures the IP prefix used with the IGP instance to tunnel IP packets for the session tests.
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf

Synopsis	Enable the **sr-ospf** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-ospf
Tree	sr-ospf
Description	Commands in this context allow for the specification of SR-OSPF specific tunnel information used to transport the test packets. Entering this context removes all other tunnel type options configured under the **configure oam-pm session ip tunnel mpls** context. Only a single MPLS type can be configured for an OAM-PM session.
Notes	The following elements are part of a choice: **rsvp-te**, **rsvp-te-auto**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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flex-algo *number*

Synopsis	Flex-algorithm to tunnel IP packets for session tests
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-ospf flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-instance *number*

Synopsis	IGP instance used to tunnel IP packets
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-ospf igp-instance *number*
Tree	igp-instance
Range	0 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *ipv4-unicast-prefix*

Synopsis	IP prefix to tunnel IP packets for the session tests
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-ospf prefix *ipv4-unicast-prefix*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy

Synopsis	Enable the **sr-policy** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-policy
Tree	sr-policy
Description	Commands in this context identify the SR policy used to tunnel IP packets for the session tests.

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Notes	The following elements are part of a choice: **rsvp-te**, **rsvp-te-auto**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

color *number*

Synopsis	Color for associating the SR policy with an objective
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-policy color *number*
Tree	color
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Segment Routing endpoint for the session
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-policy endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint
Description	This command configures the unicast IPv4 or globally routable IPv6 address endpoint of the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-list *number*

Synopsis	Segment Routing segment list for the session
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-policy segment-list *number*
Tree	segment-list
Description	This command configures the identification of the segment list for the specific policy.
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-te

Synopsis	Enable the **sr-te** context
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-te
Tree	sr-te
Description	Commands in this context allow for the specification of SR-TE specific tunnel information used to transport the test packets. Entering this context removes all other tunnel type options configured under the **configure oam-pm session ip tunnel mpls** context. Only a single MPLS type can be configured for an OAM-PM session.
Notes	The following elements are part of a choice: **rsvp-te**, **rsvp-te-auto**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp *named-item-64*

Synopsis	Name of LSP that carries the test packets
Context	**configure** oam-pm session *named-item* ip tunnel mpls sr-te lsp *named-item-64*
Tree	lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

twamp-light

Synopsis	Enable the **twamp-light** context
Context	**configure** oam-pm session *named-item* ip twamp-light
Tree	twamp-light
Description	Commands in this context configure the TWAMP-Light (Two Way Active Measurement Protocol, Light) or STAMP (Simple Two Way Active Measurement Protocol) test for the session.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the test
Context	**configure** oam-pm session *named-item* ip twamp-light admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ipv6-udp-checksum-zero *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Process IPv6 packets with a zero UDP checksum
Context	**configure** oam-pm session *named-item* ip twamp-light allow-ipv6-udp-checksum-zero *boolean*
Tree	allow-ipv6-udp-checksum-zero
Description	When configured to **true**, this command configures the acceptance of IPv6 packets with UDP checksums of 0. This optional configuration allows the router to process arriving IPv6 TWAMP Test packets that contain IPv6 UDP checksum of 0x0000. The UDP port specific to this TWAMP Light test bypasses the default discard IPv6 UDP checksum 0x0000. If this optional command is not configured, IPv6 UDP checksum 0x000 arriving packets are discarded. When configured to **false**, packets that arrive with an IPv6 UDP checksum of 0x0000 are discarded.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between transmission PDUs for the session test

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Context	**configure** oam-pm session *named-item* ip twamp-light interval *number*
Tree	interval
Description	This command configures the message period or probe spacing for the transmission of a frame.
Range	50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 10000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

loss

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **loss** context
Context	**configure** oam-pm session *named-item* ip twamp-light loss
Tree	loss
Introduced	25.3.R2
Platforms	SAR Gen 2

flr-threshold *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FLR threshold for the test
Context	**configure** oam-pm session *named-item* ip twamp-light loss flr-threshold *number*
Tree	flr-threshold
Description	This command configures the Frame Loss Ratio (FLR) threshold used to determine whether the Delta-T is high loss. An individual Delta-T with a frame loss threshold equal to the configured threshold is marked high loss. An individual Delta-T with a frame loss threshold lower than the configured threshold is not marked as high loss.
Range	0 to 100
Units	percent
Default	50

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Introduced	25.3.R2
Platforms	SAR Gen 2

hli-force-count *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Increment HLI and CHLI counters despite availability
Context	**configure** oam-pm session *named-item* ip twamp-light loss hli-force-count *boolean*
Tree	hli-force-count
Description	When configured to **true**, the router uses High Loss Interval (HLI) and Consecutive High Loss Interval (CHLI) counters to increment regardless of availability. Without this command, HLI and CHLI counters can only increment during times of availability, which includes undetermined availability.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timing

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **timing** context
Context	**configure** oam-pm session *named-item* ip twamp-light loss timing
Tree	timing
Introduced	25.3.R2
Platforms	SAR Gen 2

chli-threshold *number*

WARNING:
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Synopsis	CHLI threshold
Context	**configure** oam-pm session *named-item* ip twamp-light loss timing chli-threshold *number*
Tree	chli-threshold
Range	1 to 9
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

consec-delta-t *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of consecutive delta-t intervals
Context	**configure** oam-pm session *named-item* ip twamp-light loss timing consec-delta-t *number*
Tree	consec-delta-t
Range	2 to 10
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

frames-per-delta-t *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of frames sent in one delta-t
Context	**configure** oam-pm session *named-item* ip twamp-light loss timing frames-per-delta-t *number*
Tree	frames-per-delta-t
Range	1 to 50
Units	frames
Introduced	25.3.R2
Platforms	SAR Gen 2

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loss-events

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **loss-events** context
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events
Tree	loss-events
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-flr-event [direction] *keyword*

Synopsis	Enter the **avg-flr-event** list instance
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events avg-flr-event *keyword*
Tree	avg-flr-event
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events avg-flr-event *keyword*
Tree	avg-flr-event
Options	forward, backward
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *decimal-number*

Synopsis	Clear threshold for the average FLR
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events avg-flr-event *keyword* clear-threshold *decimal-number*

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Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when to generate the clear event. If this command is not specified, the traffic crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and without regard to any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to the following measurement intervals. If a threshold crossing event is raised another is not raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0.000 to 99.999
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *decimal-number*

Synopsis	Rising threshold for the average FLR
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events avg-flr-event *keyword* raise-threshold *decimal-number*
Tree	raise-threshold
Description	This command configures the rising percentage that determines when the event is to be generated.
Range	0.000 to 100.000
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

chli-event [direction] *keyword*

Synopsis	Enter the **chli-event** list instance
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events chli-event *keyword*
Tree	chli-event
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events chli-event *keyword*
Tree	chli-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events chli-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event

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Context	**configure** oam-pm session *named-item* ip twamp-light loss-events chli-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

hli-event [direction] *keyword*

Synopsis	Enter the **hli-event** list instance
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events hli-event *keyword*
Tree	hli-event
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events hli-event *keyword*
Tree	hli-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events hli-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement

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interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval.

If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.

Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events hli-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unavailability-event [direction] *keyword*

Synopsis	Enter the **unavailability-event** list instance
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events unavailability-event *keyword*
Tree	unavailability-event
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events unavailability-event *keyword*
Tree	unavailability-event
Options	forward, backward, aggregate

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events unavailability-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events unavailability-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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undet-availability-event [direction] *keyword*

Synopsis	Enter the **undet-availability-event** list instance
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-availability-event *keyword*
Tree	undet-availability-event
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-availability-event *keyword*
Tree	undet-availability-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-availability-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999

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Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-availability-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

undet-unavailability-event [direction] *keyword*

Synopsis	Enter the **undet-unavailability-event** list instance
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-unavailability-event *keyword*
Tree	undet-unavailability-event
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Traffic flow direction
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-unavailability-event *keyword*
Tree	undet-unavailability-event
Options	forward, backward, aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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clear-threshold *number*

Synopsis	Clear threshold
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-unavailability-event *keyword* clear-threshold *number*
Tree	clear-threshold
Description	This command configures a value used for stateful behavior to configure a percentage of loss value lower than the rising percentage to indicate when the clear event should be generated. If this command is not specified, the traffic-crossing alarm is stateless. Stateless means the state is not carried forward to other measurement intervals. Each measurement interval is analyzed independently and regardless of any previous window. Each unique event can only be raised once within the measurement interval. If this command is specified, the traffic crossing alarm uses stateful behavior. Stateful means each unique previous event state is carried forward to following the measurement intervals. If a threshold crossing event is raised another is raised until a measurement interval completes and the clear threshold has not been exceeded. A clear event is raised under that condition.
Range	0 to 863999
Introduced	25.3.R2
Platforms	SAR Gen 2

raise-threshold *number*

Synopsis	Rising threshold that determines when to generate event
Context	**configure** oam-pm session *named-item* ip twamp-light loss-events undet-unavailability-event *keyword* raise-threshold *number*
Tree	raise-threshold
Range	1 to 864000
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pad-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Amount of packet padding sent for the TWAMP-Light test
Context	**configure** oam-pm session *named-item* ip twamp-light pad-size *number*
Tree	pad-size
Range	0 to 2000
Units	octets
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pad-tlv-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Pad TLV size in each sent STAMP packet
Context	**configure** oam-pm session *named-item* ip twamp-light pad-tlv-size *number*
Tree	pad-tlv-size
Description	This command configures the PAD TLV included in the STAMP test packet with a total byte count specified by this command. TWAMP Light test packets do not allow TLVs. To pad the size of the TWAMP Light test packet the user must configure the **pad-size** command. STAMP test packets (the standard form of TWAMP Light) introduces TLVs for padding. Therefore, STAMP test packets must use the **pad-tlv-size** value.
Range	4 to 2000
Units	octets
Introduced	25.3.R2
Platforms	SAR Gen 2

record-stats *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Type of statistics recorded for the TWAMP-Light test
Context	**configure** oam-pm session *named-item* ip twamp-light record-stats *keyword*
Tree	record-stats

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Options	delay, loss, delay-and-loss
Default	delay
Introduced	25.3.R2
Platforms	SAR Gen 2

session-sender-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Packet type sent by the test
Context	**configure** oam-pm session *named-item* ip twamp-light session-sender-type *keyword*
Tree	session-sender-type
Description	This command configures the type of test packet format to transmit. When the **stamp** option is configured, STAMP transmission, packet formatting, and packet processing is allowed and STAMP test packets support TLVs. When the **twamp-light** option is configured, TWAMP Light transmission, packet formatting, and packet processing is allowed, but TWAMP Light test packets do not allow TLVs.
Options	twamp-light – Two-Way Active Measurement Protocol, Light stamp – Simple Two-Way Active Measurement Protocol
Default	twamp-light
Introduced	25.3.R2
Platforms	SAR Gen 2

test-duration *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Duration of an on-demand test
Context	**configure** oam-pm session *named-item* ip twamp-light test-duration *number*
Tree	test-duration
Range	1 to 86400
Units	seconds
Introduced	25.3.R2

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Platforms	SAR Gen 2

test-id *(number | keyword)*

WARNING:
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Synopsis	Test ID
Context	**configure** oam-pm session *named-item* ip twamp-light test-id *(number | keyword)*
Tree	test-id
Description	[None]
Range	0 to 2147483647
Options	auto – Automatically assign a test ID
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timestamp-format *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TWAMP Light or STAMP test packet timestamp format
Context	**configure** oam-pm session *named-item* ip twamp-light timestamp-format *keyword*
Tree	timestamp-format
Description	This command configures the format of the timestamp structure and epoch to include in the STAMP and TWAMP Light test packets. The command option value also sets the z-bit in the test packet. When **timestamp-format** value is **ntp**, the z-bit in the test packet is 0. When the **timestamp-format** is **ptp**, the z-bit in the test packets is 1.
Options	ntp – Network Time Protocol ptp – Precision Time Protocol
Default	ntp
Introduced	25.3.R2
Platforms	SAR Gen 2

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measurement-interval [duration] *keyword*

Synopsis	Enter the **measurement-interval** list instance
Context	**configure** oam-pm session *named-item* measurement-interval *keyword*
Tree	measurement-interval
Description	Commands in this context establish individual measurement intervals to be used by the session. A maximum of three different measurement intervals may be configured under each session.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**duration**] *keyword*

Synopsis	Duration of the measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword*
Tree	measurement-interval
Options	15-mins, 1-hour, 1-day, 5-mins, 1-min
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy for the measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

boundary-type *keyword*

Synopsis	Alignment of the start of the measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* boundary-type *keyword*

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Tree	boundary-type
Options	clock-aligned, test-relative
Default	clock-aligned
Introduced	25.3.R2
Platforms	SAR Gen 2

clock-offset *number*

Synopsis	Offset for a clock-aligned measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* clock-offset *number*
Tree	clock-offset
Range	0 to 86399
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

intervals-stored *number*

Synopsis	Maximum number of measurement intervals stored
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* intervals-stored *number*
Tree	intervals-stored
Range	1 to 96
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold-cross-alerts

Synopsis	Enter the **threshold-cross-alerts** context
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* threshold-cross-alerts
Tree	threshold-cross-alerts
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of TCAs for measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* threshold-cross-alerts admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-events *boolean*

Synopsis	Enable delay TCAs for the measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* threshold-cross-alerts delay-events *boolean*
Tree	delay-events
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

loss-events *boolean*

Synopsis	Enable loss TCAs for the measurement interval
Context	**configure** oam-pm session *named-item* measurement-interval *keyword* threshold-cross-alerts loss-events *boolean*
Tree	loss-events
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

session-type *keyword*

WARNING:
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Synopsis	Session type
Context	**configure** oam-pm session *named-item* session-type *keyword*
Tree	session-type
Options	proactive, on-demand
Default	proactive
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.18 policy-options commands

```
configure
   - policy-options
      - apply-groups reference
      - apply-groups-exclude reference
      - as-path named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - expression policy-as-path-regexp
      - as-path-group named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - entry number
            - apply-groups reference
            - apply-groups-exclude reference
            - expression policy-as-path-regexp
      - community policy-community-name
         - apply-groups reference
         - apply-groups-exclude reference
         - expression
            - apply-groups reference
            - apply-groups-exclude reference
            - exact boolean
            - expr expression-community
         - member member-community
      - damping named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - half-life number
         - max-suppress number
         - reuse number
         - suppress number
      - extended-community-set policy-community-name
         - apply-groups reference
         - apply-groups-exclude reference
         - member member-community
      - global-variables
         - name policy-var-name
            - address (ipv4-address-no-zone | ipv6-address-no-zone)
            - apply-groups reference
            - apply-groups-exclude reference
            - decimal decimal-number
            - number number
            - value named-item
      - policy-statement named-item-64
         - apply-groups reference
         - apply-groups-exclude reference
         - default-action
            - action-type keyword
            - add-paths-send-limit (number | keyword)
            - admin-tag-policy (param-midstring-64 | string)
            - advertise-label keyword
            - aigp-metric
               - add (number | string)
               - set (keyword | number | string)
            - apply-groups reference
            - apply-groups-exclude reference
            - as-path
               - add (param-midstring | string)
               - replace (param-midstring | string)
```


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```
            - as-path-prepend
               - as-path (number | string | keyword)
               - repeat (number | string)
            - bgp-high-priority boolean
            - bgp-leak boolean
            - bgp-med
               - adjust string
               - set (keyword | number | string)
            - bgp-tunnel-metric
               - prefer-aigp boolean
               - prefer-med boolean
               - value (string | number)
            - community
               - add (param-midstring-64 | string)
               - apply-groups reference
               - apply-groups-exclude reference
               - remove (param-midstring-64 | string)
               - replace (param-midstring-64 | string)
            - create-mpls-tunnel boolean
            - create-udp-tunnel boolean
            - damping (keyword | param-midstring | string)
            - flex-algo (string | number)
            - install-backup-path boolean
            - local-preference (number | string)
            - metric
               - add (number | string)
               - set (number | string)
               - subtract (number | string)
            - next-hop (keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)
            - origin (keyword | string)
            - origin-validation-state (keyword | string)
            - preference (number | string)
            - resolve-static boolean
            - route-table-install boolean
            - sr-label-index
               - prefer-igp boolean
               - value (string | number)
            - sr-maintenance-policy (param-midstring | string)
            - sticky-ecmp boolean
            - tag (number | string)
            - type (number | string)
         - description description
         - entry number
            - action
               - action-type keyword
               - add-paths-send-limit (number | keyword)
               - admin-tag-policy (param-midstring-64 | string)
               - advertise-label keyword
               - aigp-metric
                  - add (number | string)
                  - set (keyword | number | string)
               - apply-groups reference
               - apply-groups-exclude reference
               - as-path
                  - add (param-midstring | string)
                  - replace (param-midstring | string)
               - as-path-prepend
                  - as-path (number | string | keyword)
                  - repeat (number | string)
               - bgp-high-priority boolean
               - bgp-leak boolean
               - bgp-med
                  - adjust string
                  - set (keyword | number | string)
```


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```
            - bgp-tunnel-metric
               - prefer-aigp boolean
               - prefer-med boolean
               - value (string | number)
            - community
               - add (param-midstring-64 | string)
               - apply-groups reference
               - apply-groups-exclude reference
               - remove (param-midstring-64 | string)
               - replace (param-midstring-64 | string)
            - create-mpls-tunnel boolean
            - create-udp-tunnel boolean
            - damping (keyword | param-midstring | string)
            - flex-algo (string | number)
            - install-backup-path boolean
            - local-preference (number | string)
            - metric
               - add (number | string)
               - set (number | string)
               - subtract (number | string)
            - next-hop (keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)
            - origin (keyword | string)
            - origin-validation-state (keyword | string)
            - preference (number | string)
            - resolve-static boolean
            - route-table-install boolean
            - sr-label-index
               - prefer-igp boolean
               - value (string | number)
            - sr-maintenance-policy (param-midstring | string)
            - sticky-ecmp boolean
            - tag (number | string)
            - type (number | string)
         - apply-groups reference
         - apply-groups-exclude reference
         - conditional-expression
            - apply-groups reference
            - apply-groups-exclude reference
            - route-exists string
         - description description
         - from
            - aggregate-contributor boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - area ipv4-address
            - as-path
               - group (param-midstring | string)
               - length
                  - qualifier keyword
                  - unique boolean
                  - value (number | string)
               - name (param-midstring | string)
            - cluster-id
               - ip-address ipv4-prefix-with-host-bits
               - none-cluster-list boolean
            - color number
            - community
               - count
                  - qualifier keyword
                  - type keyword
                  - value (number | string)
               - expression string
               - name (param-midstring-64 | string)
            - distinguisher number
```


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configure policy-options policy-statement entry from endpoint

```
                - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
                - evpn-type keyword
                - extended-community-set reference
                - extended-community-set-options keyword
                - external boolean
                - family keyword
                - group-address (param-midstring | string)
                - host-ip (param-midstring | string)
                - interface (named-item | interface-name | interface-name | interface-name)
                - interface-subnets
                   - ip-int-name interface-name
                   - service string
                - level number
                - local-preference
                   - qualifier keyword
                   - value (number | string)
                - metric
                   - qualifier keyword
                   - value (number | string)
                - neighbor
                   - ip-address (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-
with-zone | ipv6-address-with-zone)
                   - prefix-list (param-midstring | string)
                - next-hop
                   - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                   - prefix-list (param-midstring | string)
                - origin keyword
                - origin-validation-state keyword
                - ospf-type number
                - path-type keyword
                - policy (string | string)
                - policy-variables
                   - name policy-var-name
                      - address (ipv4-address-no-zone | ipv6-address-no-zone)
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - decimal decimal-number
                      - number number
                      - value named-item
                - prefix-list (param-midstring-64 | string)
                - prefix-list-override string
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - end-length number
                   - start-length number
                   - through-length number
                   - type keyword
                - protocol
                   - instance (keyword | number)
                   - name keyword
                - route-distinguisher-list (param-midstring-64 | string)
                - source-address
                   - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                   - prefix-list (param-midstring | string)
                - state keyword
                - tag (number | keyword)
             - to
                - apply-groups reference
                - apply-groups-exclude reference
                - level number
                - neighbor
                   - ip-address (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-
with-zone | ipv6-address-with-zone)
                   - prefix-list (param-midstring | string)
```


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configure policy-options policy-statement entry to prefix-list

```
            - prefix-list (param-midstring-64 | string)
            - protocol
               - instance (keyword | number)
               - name keyword
         - entry-type keyword
         - named-entry named-item-255
            - action
               - action-type keyword
               - add-paths-send-limit (number | keyword)
               - admin-tag-policy (param-midstring-64 | string)
               - advertise-label keyword
               - aigp-metric
                  - add (number | string)
                  - set (keyword | number | string)
               - apply-groups reference
               - apply-groups-exclude reference
               - as-path
                  - add (param-midstring | string)
                  - replace (param-midstring | string)
               - as-path-prepend
                  - as-path (number | string | keyword)
                  - repeat (number | string)
               - bgp-high-priority boolean
               - bgp-leak boolean
               - bgp-med
                  - adjust string
                  - set (keyword | number | string)
               - bgp-tunnel-metric
                  - prefer-aigp boolean
                  - prefer-med boolean
                  - value (string | number)
               - community
                  - add (param-midstring-64 | string)
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - remove (param-midstring-64 | string)
                  - replace (param-midstring-64 | string)
               - create-mpls-tunnel boolean
               - create-udp-tunnel boolean
               - damping (keyword | param-midstring | string)
               - flex-algo (string | number)
               - install-backup-path boolean
               - local-preference (number | string)
               - metric
                  - add (number | string)
                  - set (number | string)
                  - subtract (number | string)
               - next-hop (keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)
               - origin (keyword | string)
               - origin-validation-state (keyword | string)
               - preference (number | string)
               - resolve-static boolean
               - route-table-install boolean
               - sr-label-index
                  - prefer-igp boolean
                  - value (string | number)
               - sr-maintenance-policy (param-midstring | string)
               - sticky-ecmp boolean
               - tag (number | string)
               - type (number | string)
            - apply-groups reference
            - apply-groups-exclude reference
            - conditional-expression
               - apply-groups reference
```


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configure policy-options policy-statement named-entry conditional-expression apply-groups-exclude

```
                - apply-groups-exclude reference
                - route-exists string
             - description description
             - from
                - aggregate-contributor boolean
                - apply-groups reference
                - apply-groups-exclude reference
                - area ipv4-address
                - as-path
                   - group (param-midstring | string)
                   - length
                      - qualifier keyword
                      - unique boolean
                      - value (number | string)
                   - name (param-midstring | string)
                - cluster-id
                   - ip-address ipv4-prefix-with-host-bits
                   - none-cluster-list boolean
                - color number
                - community
                   - count
                      - qualifier keyword
                      - type keyword
                      - value (number | string)
                   - expression string
                   - name (param-midstring-64 | string)
                - distinguisher number
                - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
                - evpn-type keyword
                - extended-community-set reference
                - extended-community-set-options keyword
                - external boolean
                - family keyword
                - group-address (param-midstring | string)
                - host-ip (param-midstring | string)
                - interface (named-item | interface-name | interface-name | interface-name)
                - interface-subnets
                   - ip-int-name interface-name
                   - service string
                - level number
                - local-preference
                   - qualifier keyword
                   - value (number | string)
                - metric
                   - qualifier keyword
                   - value (number | string)
                - neighbor
                   - ip-address (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-
with-zone | ipv6-address-with-zone)
                   - prefix-list (param-midstring | string)
                - next-hop
                   - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                   - prefix-list (param-midstring | string)
                - origin keyword
                - origin-validation-state keyword
                - ospf-type number
                - path-type keyword
                - policy (string | string)
                - policy-variables
                   - name policy-var-name
                      - address (ipv4-address-no-zone | ipv6-address-no-zone)
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - decimal decimal-number
```


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configure policy-options policy-statement named-entry from policy-variables name number

```
                     - number number
                     - value named-item
               - prefix-list (param-midstring-64 | string)
               - prefix-list-override string
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - end-length number
                  - start-length number
                  - through-length number
                  - type keyword
               - protocol
                  - instance (keyword | number)
                  - name keyword
               - route-distinguisher-list (param-midstring-64 | string)
               - source-address
                  - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - prefix-list (param-midstring | string)
               - state keyword
               - tag (number | keyword)
            - to
               - apply-groups reference
               - apply-groups-exclude reference
               - level number
               - neighbor
                  - ip-address (ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-
with-zone | ipv6-address-with-zone)
                  - prefix-list (param-midstring | string)
               - prefix-list (param-midstring-64 | string)
               - protocol
                  - instance (keyword | number)
                  - name keyword
      - prefix-list named-item-64
         - apply-groups reference
         - apply-groups-exclude reference
         - prefix (ipv4-prefix | ipv6-prefix) type keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - end-length number
            - mask-pattern (ipv4-address-no-zone | ipv6-address-no-zone)
            - start-length number
            - through-length number
            - to-prefix (ipv4-prefix | ipv6-prefix)
      - route-distinguisher-list named-item-64
         - apply-groups reference
         - apply-groups-exclude reference
         - rd-entry string
```


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4.18.1 policy-options command descriptions

policy-options

Synopsis	Enter the **policy-options** context
Context	**configure** policy-options
Tree	policy-options
Description	Commands in this context configure route policies. Route policies are applied to the routing protocol.
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path [name] *named-item*

Synopsis	Enter the **as-path** list instance
Context	**configure** policy-options as-path *named-item*
Tree	as-path
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	AS path name
Context	**configure** policy-options as-path *named-item*
Tree	as-path
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

expression *policy-as-path-regexp*

Synopsis	Regular expression string
Context	**configure** policy-options as-path *named-item* expression *policy-as-path-regexp*

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Tree	expression
Description	This command configures a route policy AS path regular expression statement to use in route policy entries. An AS path in a BGP route matches an AS path regular expression, if the path matches the pattern of the regular expression. A regular expression incorporates terms and operators that use the terms. An individual AS number is an elementary term in the AS path regular expression. More complex terms can be built from elementary terms. The following are key operators supported by SR OS: • . • * • ? • {n} • {m,n} • {m, } To reverse the match criteria when specifying a list of ranges or single values using square brackets, use the non-match operator (^) before the elements within the square brackets.
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path-group [name] *named-item*

Synopsis	Enter the **as-path-group** list instance
Context	**configure** policy-options as-path-group *named-item*
Tree	as-path-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	AS path group name
Context	**configure** policy-options as-path-group *named-item*
Tree	as-path-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** policy-options as-path-group *named-item* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry**] *number*

Synopsis	AS path entry ID
Context	**configure** policy-options as-path-group *named-item* entry *number*
Tree	entry
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

expression *policy-as-path-regexp*

Synopsis	Regular expression string
Context	**configure** policy-options as-path-group *named-item* entry *number* expression *policy-as-path-regexp*
Tree	expression
Description	This command configures an AS path group regular expression. An AS path in a BGP route matches an AS path group, if the pattern of the path matches the concatenation of all regular expressions in the group. A regular expression incorporates terms and operators that use the terms. An individual AS number is an elementary term in the AS path regular expression. More complex terms can be built from elementary terms. The following are key operators supported by SR OS: • . • * • ? • {n}

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- {m,n}
- {m, }

To reverse the match criteria when specifying a list of ranges or single values using square brackets, use the non-match operator (^) before the elements within the square brackets.

String length	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

community [name] *policy-community-name*

Synopsis	Enter the **community** list instance
Context	**configure** policy-options community *policy-community-name*
Tree	community
Description	Commands in this context create a route policy community list or expression to use in route policy entries. A community list is an unordered set of community values (members). In general, for each member in the configured community list, there must be a match with at least one community in the route. A community expression is a set of community values that are arranged in a logical expression using operators such as AND, OR, and NOT. A route matches a community expression if it satisfies the logic of the expression. For more information, see the **expression** and **members** commands in the **configure policy-options community** context.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *policy-community-name*

Synopsis	Name of extended community set
Context	**configure** policy-options community *policy-community-name*
Tree	community
Description	This command configures a route policy community name.
String length	1 to 64
String format	'policy-community-name' must not be all spaces
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

expression

Synopsis	Enable the **expression** context
Context	**configure** policy-options community *policy-community-name* expression
Tree	expression
Introduced	25.3.R2
Platforms	SAR Gen 2

exact *boolean*

Synopsis	Match exactly for the specified expression
Context	**configure** policy-options community *policy-community-name* expression exact *boolean*
Tree	exact
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

expr *expression-community*

Synopsis	Community expression value
Context	**configure** policy-options community *policy-community-name* expression expr *expression-community*
Tree	expr
String length	1 to 900
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

member [member] *member-community*

Synopsis	Add a list entry for **member**
Context	**configure** policy-options community *policy-community-name* member *member-community*
Tree	member

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**member**] *member-community*

Synopsis	Community member value
Context	**configure** policy-options community *policy-community-name* member *member-community*
Tree	member
Description	This command configures a BGP community value. Each member of a community list is a standard, extended, or large community value or a regular expression that potentially matches many community values. A regular expression incorporates terms and operators that use the terms. An individual numerical digit is an elementary term in the community regular expression. More complex terms can be built from elementary terms. The following are key operators supported by SR OS: • . • * • ? • {n} • {m,n} • {m, } To reverse the match criteria when specifying a list of ranges or single values using square brackets, use the non-match operator (^) before the elements within the square brackets.
String length	1 to 72
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

damping [name] *named-item*

Synopsis	Enter the **damping** list instance
Context	**configure** policy-options damping *named-item*
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	Damping profile name
Context	**configure** policy-options damping *named-item*
Tree	damping
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

half-life *number*

Synopsis	Time after the FOM value is halved
Context	**configure** policy-options damping *named-item* half-life *number*
Tree	half-life
Range	1 to 45
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

max-suppress *number*

Synopsis	Maximum time for a route to remain suppressed
Context	**configure** policy-options damping *named-item* max-suppress *number*
Tree	max-suppress
Range	1 to 720
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

reuse *number*

Synopsis	Value below which a suppressed route can be used again
Context	**configure** policy-options damping *named-item* reuse *number*

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Tree	reuse
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress *number*

Synopsis	Value above which a route is suppressed
Context	**configure** policy-options damping *named-item* suppress *number*
Tree	suppress
Range	1 to 20000
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-community-set [name] *policy-community-name*

Synopsis	Enter the **extended-community-set** list instance
Context	**configure** policy-options extended-community-set *policy-community-name*
Tree	extended-community-set
Description	Commands in this context configure an extended community set used in route policies. An extended community set defines a list of exact match route target extended communities (type 0, type 1, or type 2). The set can be referenced in policy statements to match BGP routes that carry or do not carry the specified route targets.
Introduced	25.10.R3
Platforms	SAR Gen 2

[**name**] *policy-community-name*

Synopsis	Name of extended community set
Context	**configure** policy-options extended-community-set *policy-community-name*
Tree	extended-community-set
Description	This command configures a route policy community name.
String length	1 to 64
String format	'policy-community-name' must not be all spaces
Notes	This element is part of a list key.

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Introduced	25.10.R3
Platforms	SAR Gen 2

member [value] *member-community*

Synopsis	Add a list entry for **member**
Context	**configure** policy-options extended-community-set *policy-community-name* member *member-community*
Tree	member
Description	Commands in this context add a route target member of an extended community set. The member must be configured in an exact match format and it must start with the substring 'target:'. This substring is followed by two numbers separated from each other by a colon. The meaning of the two numbers depends on whether the route target is in type 0, type 1 or type 2 format. These members cannot be configured to be regular expressions.
Introduced	25.10.R3
Platforms	SAR Gen 2

[**value**] *member-community*

Synopsis	Member of an extended community set
Context	**configure** policy-options extended-community-set *policy-community-name* member *member-community*
Tree	member
String length	1 to 72
String format	'value' must be target-type extended community (target:...:...)
Notes	This element is part of a list key.
Introduced	25.10.R3
Platforms	SAR Gen 2

global-variables

Synopsis	Enter the **global-variables** context
Context	**configure** policy-options global-variables
Tree	global-variables
Introduced	25.3.R2
Platforms	SAR Gen 2

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name [variable-name] *policy-var-name*

Synopsis	Enter the **name** list instance
Context	**configure** policy-options global-variables name *policy-var-name*
Tree	name
Max. instances	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

[**variable-name**] *policy-var-name*

Synopsis	Global variable name used to reference policy functions
Context	**configure** policy-options global-variables name *policy-var-name*
Tree	name
String length	1 to 32
String format	'policy-var-name' must start and end with @ (e.g. @name@)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the policy variable
Context	**configure** policy-options global-variables name *policy-var-name* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

decimal *decimal-number*

Synopsis	Attribute decimal to which variable name is resolved

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Context	**configure** policy-options global-variables name *policy-var-name* decimal *decimal-number*
Tree	decimal
Range	0.000 to 4294967295.000
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Numerical value of the policy variable
Context	**configure** policy-options global-variables name *policy-var-name* number *number*
Tree	number
Range	0 to 4294967295
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *named-item*

Synopsis	Policy variable value
Context	**configure** policy-options global-variables name *policy-var-name* value *named-item*
Tree	value
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-statement [name] *named-item-64*

Synopsis	Enter the **policy-statement** list instance
Context	**configure** policy-options policy-statement *named-item-64*

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Tree	policy-statement
Description	Commands in this context configure a route policy statement. Route policy statements control the flow of routing information to and from a specific protocol, set of protocols, or to a specific BGP neighbor. The policy statement is a logical grouping of match and action criteria. A single policy statement can affect routing in one or more protocols and one or more peers or neighbors. A single policy statement can also affect both the import and export of routing information.
Max. instances	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item-64*

Synopsis	Route policy statement name
Context	**configure** policy-options policy-statement *named-item-64*
Tree	policy-statement
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action

Synopsis	Enable the **default-action** context
Context	**configure** policy-options policy-statement *named-item-64* default-action
Tree	default-action
Introduced	25.3.R2
Platforms	SAR Gen 2

action-type *keyword*

Synopsis	Action type for routes matching the route policy entry
Context	**configure** policy-options policy-statement *named-item-64* default-action action-type *keyword*

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Tree	action-type
Options	accept, reject, next-entry, next-policy
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

add-paths-send-limit *(number | keyword)*

Synopsis	BGP Add-Paths send limit applied for routes
Context	**configure** policy-options policy-statement *named-item-64* default-action add-paths-send-limit *(number | keyword)*
Tree	add-paths-send-limit
Range	1 to 16
Options	multipaths
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tag-policy *(param-midstring-64 | string)*

Synopsis	Administrative tag policy name
Context	**configure** policy-options policy-statement *named-item-64* default-action admin-tag-policy *(param-midstring-64 | string)*
Tree	admin-tag-policy
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-label *keyword*

Synopsis	Label allocation for matched BGP routes
Context	**configure** policy-options policy-statement *named-item-64* default-action advertise-label *keyword*
Tree	advertise-label
Description	This command configures the label allocation method for advertised routes. The effect of this command depends on the context where the associated policy is applied.

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Options	per-prefix, pop, pop-and-forward
Introduced	25.3.R2
Platforms	SAR Gen 2

aigp-metric

Synopsis	Enter the **aigp-metric** context
Context	**configure** policy-options policy-statement *named-item-64* default-action aigp-metric
Tree	aigp-metric
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(number | string)*

Synopsis	AIGP metric to add
Context	**configure** policy-options policy-statement *named-item-64* default-action aigp-metric add *(number | string)*
Tree	add
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(keyword | number | string)*

Synopsis	AIGP metric
Context	**configure** policy-options policy-statement *named-item-64* default-action aigp-metric set *(keyword | number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
Options	igp
String format	'param-name' must start and end with @ (e.g. @name@)

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Notes	The following elements are part of a choice: **add** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path

Synopsis	Enter the **as-path** context
Context	**configure** policy-options policy-statement *named-item-64* default-action as-path
Tree	as-path
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(param-midstring | string)*

Synopsis	AS path to add
Context	**configure** policy-options policy-statement *named-item-64* default-action as-path add *(param-midstring | string)*
Tree	add
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **add** or **replace**.
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *(param-midstring | string)*

Synopsis	AS path to replace
Context	**configure** policy-options policy-statement *named-item-64* default-action as-path replace *(param-midstring | string)*
Tree	replace
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **add** or **replace**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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as-path-prepend

Synopsis	Enter the **as-path-prepend** context
Context	**configure** policy-options policy-statement *named-item-64* default-action as-path-prepend
Tree	as-path-prepend
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path *(number | string | keyword)*

Synopsis	AS number to prepend to the AS path attribute
Context	**configure** policy-options policy-statement *named-item-64* default-action as-path-prepend as-path *(number | string | keyword)*
Tree	as-path
String length	1 to 32
Range	1 to 4294967295
Options	most-recent
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *(number | string)*

Synopsis	Number of times to prepend the specified AS number
Context	**configure** policy-options policy-statement *named-item-64* default-action as-path-prepend repeat *(number | string)*
Tree	repeat
String length	1 to 32
Range	1 to 50
Default	1
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

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bgp-high-priority *boolean*

Synopsis	Tag routes as high priority for fast table updates
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-high-priority *boolean*
Tree	bgp-high-priority
Description	When configured to **true**, eligible BGP routes matched by the policy entry or policy default-action are tagged as needing faster route table updates. This action applies only when the policy is applied as a BGP import policy to a base router BGP peer or VPRN BGP peer and applies only to the following route types: • IPv4 • label-IPv4 • IPv6 • label-IPv6 This command is useful when the BGP RIB contains a large number of routes and quick routing table updates are needed for a small subset of these routes. The effectiveness of this command decreases as the subset becomes a larger proportion of the total RIB. When configured to **false**, no routes are tagged for faster route table updates.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-leak *boolean*

Synopsis	Allow leaking for BGP routes
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-leak *boolean*
Tree	bgp-leak
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-med

Synopsis	Enter the **bgp-med** context
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-med
Tree	bgp-med

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Introduced	25.3.R2
Platforms	SAR Gen 2

adjust *string*

Synopsis	BGP-MED adjustment
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-med adjust *string*
Tree	adjust
String length	1 to 64
String format	'expression' must contain _igp_ or _med_ or @parameter@ 'expression' must contain one operator: +, - or *
Notes	The following elements are part of a choice: **adjust** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(keyword | number | string)*

Synopsis	BGP-MED assignment
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-med set *(keyword | number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
Options	igp, min-igp
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **adjust** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-tunnel-metric

Synopsis	Enter the **bgp-tunnel-metric** context
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-tunnel-metric
Tree	bgp-tunnel-metric

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Description	Commands in this context configure the tunnel-table metrics associated with BGP label unicast routes that pass through to the default action of the policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-aigp *boolean*

Synopsis	Use AIGP attribute as tunnel metric when present
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-tunnel-metric prefer-aigp *boolean*
Tree	prefer-aigp
Description	When configured to **true**, and a BGP-LU route is selected for installation in TTM and it is matched by this action in a BGP import policy. The TTM metric of the tunnel is set to the AIGP metric value of the BGP-LU route plus the IGP cost to reach the BGP next-hop if it has the AIGP path attribute, otherwise it is set to the value implied by the value leaf. When configured to **false**, the AIGP attribute is removed from the advertised routes and is ignored if present in the received routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-med *boolean*

Synopsis	Use MED attribute as tunnel metric when present
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-tunnel-metric prefer-med *boolean*
Tree	prefer-med
Description	When configured to **true**, if a BGP-LU route is selected for installation in the TTM and is matched by this action in a BGP import policy, the TTM metric of the tunnel is set to the MED metric value of the BGP-LU route with the IGP cost to reach the BGP next hop added to it. When configured to **false**, the BGP tunnel metric associated with the BGP-LU route accepted by this policy action is not determined using the MED attribute.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *(string | number)*

Synopsis	BGP tunnel table metric value
Context	**configure** policy-options policy-statement *named-item-64* default-action bgp-tunnel-metric value *(string | number)*
Tree	value
Description	This command configures a BGP tunnel metric is assigned to routes that do not match any entry. If a BGP-LU route is selected for installation in TTM and it is matched by this action in a BGP import policy, the TTM metric of the associated tunnel is set to this value (or the value associated with the parameter name) if either: • the prefer-aigp option is set to false • the prefer-aigp option is set to true but the BGP-LU route does not have an AIGP attribute
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

community

Synopsis	Enter the **community** context
Context	**configure** policy-options policy-statement *named-item-64* default-action community
Tree	community
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(param-midstring-64 | string)*

Synopsis	List of community names to add
Context	**configure** policy-options policy-statement *named-item-64* default-action community add *(param-midstring-64 | string)*
Tree	add
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)

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Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

remove *(param-midstring-64 | string)*

Synopsis	List of community names to remove
Context	**configure** policy-options policy-statement *named-item-64* default-action community remove *(param-midstring-64 | string)*
Tree	remove
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *(param-midstring-64 | string)*

Synopsis	List of community names to replace
Context	**configure** policy-options policy-statement *named-item-64* default-action community replace *(param-midstring-64 | string)*
Tree	replace
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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create-mpls-tunnel *boolean*

Synopsis	Create an MPLS tunnel
Context	**configure** policy-options policy-statement *named-item-64* default-action create-mpls-tunnel *boolean*
Tree	create-mpls-tunnel
Description	When configured to **true**, the router creates an MPLS tunnel. This command is supported for only the following address families: • evpn • ipv4 • ipv6 • label-ipv4 • label-ipv6 • vpn-ipv4 • vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

create-udp-tunnel *boolean*

Synopsis	Create an MPLS-over-UDP tunnel
Context	**configure** policy-options policy-statement *named-item-64* default-action create-udp-tunnel *boolean*
Tree	create-udp-tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *(keyword | param-midstring | string)*

Synopsis	Damping profile used for routes
Context	**configure** policy-options policy-statement *named-item-64* default-action damping *(keyword | param-midstring | string)*
Tree	damping
String length	1 to 32

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Options	none
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo *(string | number)*

Synopsis	Flexible algorithm for BGP next-hop autobind operation
Context	**configure** policy-options policy-statement *named-item-64* default-action flex-algo *(string | number)*
Tree	flex-algo
Description	This command configures the Flex-Algorithm for use in the BGP next-hop automatic bind operation in a BGP import policy. A Flex-Algorithm aware autobind of the BGP next-hop is enabled when the route is matched by the policy statement entry. Flex-Algorithm aware next-hop lookup is supported for unicast BGP, VPRN, and BGP-LU. This command is not supported for multicast address families.
String length	1 to 32
Range	128 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

install-backup-path *boolean*

Synopsis	Install a preprogrammed backup path for the prefix
Context	**configure** policy-options policy-statement *named-item-64* default-action install-backup-path *boolean*
Tree	install-backup-path
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *(number | string)*

Synopsis	BGP local preference for routes not matching any entry

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Context	**configure** policy-options policy-statement *named-item-64* default-action local-preference *(number | string)*
Tree	local-preference
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

metric

Synopsis	Enter the **metric** context
Context	**configure** policy-options policy-statement *named-item-64* default-action metric
Tree	metric
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(number | string)*

Synopsis	Metric to add
Context	**configure** policy-options policy-statement *named-item-64* default-action metric add *(number | string)*
Tree	add
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(number | string)*

Synopsis	Metric to assign
Context	**configure** policy-options policy-statement *named-item-64* default-action metric set *(number | string)*
Tree	set

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String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subtract *(number | string)*

Synopsis	Metric to subtract
Context	**configure** policy-options policy-statement *named-item-64* default-action metric subtract *(number | string)*
Tree	subtract
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)*

Synopsis	Next-hop IP address applied to routes
Context	**configure** policy-options policy-statement *named-item-64* default-action next-hop *(keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)*
Tree	next-hop
String length	1 to 32
Options	peer-address, self
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

origin *(keyword | string)*

Synopsis	BGP origin for routes that are exported into BGP

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Context	**configure** policy-options policy-statement *named-item-64* default-action origin *(keyword | string)*
Tree	origin
String length	1 to 32
Options	igp, egp, incomplete
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation-state *(keyword | string)*

Synopsis	Origin validation state for routes
Context	**configure** policy-options policy-statement *named-item-64* default-action origin-validation-state *(keyword | string)*
Tree	origin-validation-state
String length	1 to 32
Options	valid, not-found, invalid
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *(number | string)*

Synopsis	Route preference applied to routes
Context	**configure** policy-options policy-statement *named-item-64* default-action preference *(number | string)*
Tree	preference
String length	1 to 32
Range	1 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

resolve-static *boolean*

Synopsis	Resolve next hop of a static route for the BGP next hop

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Context	**configure** policy-options policy-statement *named-item-64* default-action resolve-static *boolean*
Tree	resolve-static
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-install *boolean*

Synopsis	Allow BGP route installation in the route table
Context	**configure** policy-options policy-statement *named-item-64* default-action route-table-install *boolean*
Tree	route-table-install
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-label-index

Synopsis	Enter the **sr-label-index** context
Context	**configure** policy-options policy-statement *named-item-64* default-action sr-label-index
Tree	sr-label-index
Description	Commands in this context configure the policy action to associate a BGP segment-routing label index value with all /32 BGP labeled IPv4 routes. The use of this action in a policy entry that matches more than one /32 labeled IPv4 route may create SID conflicts. This action only takes effect in BGP peer import policies (and only on received /32 labeled IPv4 routes) and in route table import policies associated with the labeled IPv4 RIB. When this action occurs in a policy applied as a peer import policy, a prefix SID attribute can be added to a received /32 labeled IPv4 route that was not sent with this attribute, or the received prefix SID attribute can be replaced with a new one.
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefer-igp *boolean*

Synopsis	Use the SR label index from the IGP route when present
Context	**configure** policy-options policy-statement *named-item-64* default-action sr-label-index prefer-igp *boolean*
Tree	prefer-igp
Description	When configured to **true**, BGP obtains the SID index from the IGP route (if a SID index is present) and the **configure router bgp segment-routing prefix-sid-range global** command is set to **true**. This command applies only to route table import policies. When configured to **false**, or the SID index is not present in the IGP route, or the **configure router bgp segment-routing prefix-sid-range global** command is not set to **true**, BGP obtains the label index value from the **value** command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(string | number)*

Synopsis	BGP SR label index associated with routes
Context	**configure** policy-options policy-statement *named-item-64* default-action sr-label-index value *(string | number)*
Tree	value
Description	This command specifies the BGP SR label index value to be associated with a route or routes. If this command specifies an index value that causes a SID conflict with another BGP route, all conflicting BGP routes are re-advertised with label values based on dynamic allocation rather than SID-based allocation. If this command specifies an index value that causes a SID conflict with an IGP route, the BGP route is re-advertised with a label value based on dynamic allocation rather than SID-based allocation.
String length	1 to 32
Range	0 to 1048575
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-maintenance-policy *(param-midstring | string)*

Synopsis	SR maintenance policy as an action
Context	**configure** policy-options policy-statement *named-item-64* default-action sr-maintenance-policy *(param-midstring | string)*
Tree	sr-maintenance-policy
Description	This command applies a named segment routing maintenance policy as an action for route policies. It is only used for SR policy routes.
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-ecmp *boolean*

Synopsis	Specify the sticky ECMP flag for BGP ECMP routes
Context	**configure** policy-options policy-statement *named-item-64* default-action sticky-ecmp *boolean*
Tree	sticky-ecmp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | string)*

Synopsis	OSPF RIP or IS-IS tag applied to routes
Context	**configure** policy-options policy-statement *named-item-64* default-action tag *(number | string)*
Tree	tag
String length	1 to 32
Range	1 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *(number | string)*

Synopsis	OSPF metric type applied to routes
Context	**configure** policy-options policy-statement *named-item-64* default-action type *(number | string)*
Tree	type
String length	1 to 32
Range	1 to 2
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** policy-options policy-statement *named-item-64* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** policy-options policy-statement *named-item-64* entry *number*
Tree	entry
Description	Commands in this context create or edit route policy entries within the route policy statement. Multiple entries can be created using unique entries. The router exits the filter when the first match is found and executes the action specified. For this reason, entries must be sequenced correctly from most to least explicit. An entry does not require matching criteria defined (in which case, everything matches) but, at a minimum, must define an action to be considered complete. Entries without an action are considered incomplete and are rendered inactive.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**entry-id**] *number*

Synopsis	Entry ID for a route policy entry
Context	**configure** policy-options policy-statement *named-item-64* entry *number*
Tree	entry
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enable the **action** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

action-type *keyword*

Synopsis	Action type for routes matching the route policy entry
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action action-type *keyword*
Tree	action-type
Options	accept, reject, next-entry, next-policy
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

add-paths-send-limit *(number | keyword)*

Synopsis	BGP Add-Paths send limit applied for routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action add-paths-send-limit *(number | keyword)*
Tree	add-paths-send-limit

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Range	1 to 16
Options	multipaths
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tag-policy *(param-midstring-64 | string)*

Synopsis	Administrative tag policy name
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action admin-tag-policy *(param-midstring-64 | string)*
Tree	admin-tag-policy
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-label *keyword*

Synopsis	Label allocation for matched BGP routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action advertise-label *keyword*
Tree	advertise-label
Description	This command configures the label allocation method for advertised routes. The effect of this command depends on the context where the associated policy is applied.
Options	per-prefix, pop, pop-and-forward
Introduced	25.3.R2
Platforms	SAR Gen 2

aigp-metric

Synopsis	Enter the **aigp-metric** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action aigp-metric
Tree	aigp-metric
Introduced	25.3.R2
Platforms	SAR Gen 2

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add *(number | string)*

Synopsis	AIGP metric to add
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action aigp-metric add *(number | string)*
Tree	add
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(keyword | number | string)*

Synopsis	AIGP metric
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action aigp-metric set *(keyword | number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
Options	igp
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path

Synopsis	Enter the **as-path** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action as-path
Tree	as-path
Introduced	25.3.R2
Platforms	SAR Gen 2

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add *(param-midstring | string)*

Synopsis	AS path to add
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action as-path add *(param-midstring | string)*
Tree	add
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **add** or **replace**.
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *(param-midstring | string)*

Synopsis	AS path to replace
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action as-path replace *(param-midstring | string)*
Tree	replace
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **add** or **replace**.
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path-prepend

Synopsis	Enter the **as-path-prepend** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action as-path-prepend
Tree	as-path-prepend
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path *(number | string | keyword)*

Synopsis	AS number to prepend to the AS path attribute

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Context	**configure** policy-options policy-statement *named-item-64* entry *number* action as-path-prepend as-path *(number | string | keyword)*
Tree	as-path
String length	1 to 32
Range	1 to 4294967295
Options	most-recent
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat *(number | string)*

Synopsis	Number of times to prepend the specified AS number
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action as-path-prepend repeat *(number | string)*
Tree	repeat
String length	1 to 32
Range	1 to 50
Default	1
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-high-priority *boolean*

Synopsis	Tag routes as high priority for fast table updates
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-high-priority *boolean*
Tree	bgp-high-priority
Description	When configured to **true**, eligible BGP routes matched by the policy entry or policy default-action are tagged as needing faster route table updates. This action applies only when the policy is applied as a BGP import policy to a base router BGP peer or VPRN BGP peer and applies only to the following route types: • IPv4 • label-IPv4 • IPv6 • label-IPv6

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This command is useful when the BGP RIB contains a large number of routes and quick routing table updates are needed for a small subset of these routes. The effectiveness of this command decreases as the subset becomes a larger proportion of the total RIB.

When configured to **false**, no routes are tagged for faster route table updates.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-leak *boolean*

Synopsis	Allow leaking for BGP routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-leak *boolean*
Tree	bgp-leak
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-med

Synopsis	Enter the **bgp-med** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-med
Tree	bgp-med
Introduced	25.3.R2
Platforms	SAR Gen 2

adjust *string*

Synopsis	BGP-MED adjustment
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-med adjust *string*
Tree	adjust
String length	1 to 64
String format	'expression' must contain _igp_ or _med_ or @parameter@ 'expression' must contain one operator: +, - or *
Notes	The following elements are part of a choice: **adjust** or **set**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

set *(keyword | number | string)*

Synopsis	BGP-MED assignment
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-med set *(keyword | number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
Options	igp, min-igp
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **adjust** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-tunnel-metric

Synopsis	Enter the **bgp-tunnel-metric** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-tunnel-metric
Tree	bgp-tunnel-metric
Description	Commands in this context configure the tunnel-table metrics associated with BGP label unicast routes that pass through to the default action of the policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-aigp *boolean*

Synopsis	Use AIGP attribute as tunnel metric when present
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-tunnel-metric prefer-aigp *boolean*
Tree	prefer-aigp
Description	When configured to **true**, and a BGP-LU route is selected for installation in TTM and it is matched by this action in a BGP import policy. The TTM metric of the tunnel is set to the

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AIGP metric value of the BGP-LU route plus the IGP cost to reach the BGP next-hop if it has the AIGP path attribute, otherwise it is set to the value implied by the value leaf.

When configured to **false**, the AIGP attribute is removed from the advertised routes and is ignored if present in the received routes.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-med *boolean*

Synopsis	Use MED attribute as tunnel metric when present
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-tunnel-metric prefer-med *boolean*
Tree	prefer-med
Description	When configured to **true**, if a BGP-LU route is selected for installation in the TTM and is matched by this action in a BGP import policy, the TTM metric of the tunnel is set to the MED metric value of the BGP-LU route with the IGP cost to reach the BGP next hop added to it. When configured to **false**, the BGP tunnel metric associated with the BGP-LU route accepted by this policy action is not determined using the MED attribute.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(string | number)*

Synopsis	BGP tunnel table metric value
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action bgp-tunnel-metric value *(string | number)*
Tree	value
Description	This command configures a BGP tunnel metric is assigned to routes that do not match any entry. If a BGP-LU route is selected for installation in TTM and it is matched by this action in a BGP import policy, the TTM metric of the associated tunnel is set to this value (or the value associated with the parameter name) if either: • the prefer-aigp option is set to false • the prefer-aigp option is set to true but the BGP-LU route does not have an AIGP attribute
String length	1 to 32

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Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

community

Synopsis	Enter the **community** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action community
Tree	community
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(param-midstring-64 | string)*

Synopsis	List of community names to add
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action community add *(param-midstring-64 | string)*
Tree	add
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

remove *(param-midstring-64 | string)*

Synopsis	List of community names to remove
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action community remove *(param-midstring-64 | string)*
Tree	remove
String length	1 to 64

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String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *(param-midstring-64 | string)*

Synopsis	List of community names to replace
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action community replace *(param-midstring-64 | string)*
Tree	replace
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

create-mpls-tunnel *boolean*

Synopsis	Create an MPLS tunnel
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action create-mpls-tunnel *boolean*
Tree	create-mpls-tunnel
Description	When configured to **true**, the router creates an MPLS tunnel. This command is supported for only the following address families: • evpn • ipv4 • ipv6 • label-ipv4 • label-ipv6

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- vpn-ipv4
- vpn-ipv6

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

create-udp-tunnel *boolean*

Synopsis	Create an MPLS-over-UDP tunnel
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action create-udp-tunnel *boolean*
Tree	create-udp-tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *(keyword | param-midstring | string)*

Synopsis	Damping profile used for routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action damping *(keyword | param-midstring | string)*
Tree	damping
String length	1 to 32
Options	none
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo *(string | number)*

Synopsis	Flexible algorithm for BGP next-hop autobind operation
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action flex-algo *(string | number)*
Tree	flex-algo
Description	This command configures the Flex-Algorithm for use in the BGP next-hop automatic bind operation in a BGP import policy. A Flex-Algorithm aware autobind of the BGP next-hop is enabled when the route is matched by the policy statement entry.

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	Flex-Algorithm aware next-hop lookup is supported for unicast BGP, VPRN, and BGP-LU. This command is not supported for multicast address families.
String length	1 to 32
Range	128 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

install-backup-path *boolean*

Synopsis	Install a preprogrammed backup path for the prefix
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action install-backup-path *boolean*
Tree	install-backup-path
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *(number | string)*

Synopsis	BGP local preference for routes not matching any entry
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action local-preference *(number | string)*
Tree	local-preference
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

metric

Synopsis	Enter the **metric** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action metric
Tree	metric

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Introduced	25.3.R2
Platforms	SAR Gen 2

add *(number | string)*

Synopsis	Metric to add
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action metric add *(number | string)*
Tree	add
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(number | string)*

Synopsis	Metric to assign
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action metric set *(number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subtract *(number | string)*

Synopsis	Metric to subtract
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action metric subtract *(number | string)*
Tree	subtract
String length	1 to 32

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Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)*

Synopsis	Next-hop IP address applied to routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action next-hop *(keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)*
Tree	next-hop
String length	1 to 32
Options	peer-address, self
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

origin *(keyword | string)*

Synopsis	BGP origin for routes that are exported into BGP
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action origin *(keyword | string)*
Tree	origin
String length	1 to 32
Options	igp, egp, incomplete
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation-state *(keyword | string)*

Synopsis	Origin validation state for routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action origin-validation-state *(keyword | string)*
Tree	origin-validation-state

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String length	1 to 32
Options	valid, not-found, invalid
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *(number | string)*

Synopsis	Route preference applied to routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action preference *(number | string)*
Tree	preference
String length	1 to 32
Range	1 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

resolve-static *boolean*

Synopsis	Resolve next hop of a static route for the BGP next hop
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action resolve-static *boolean*
Tree	resolve-static
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-install *boolean*

Synopsis	Allow BGP route installation in the route table
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action route-table-install *boolean*
Tree	route-table-install
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

sr-label-index

Synopsis	Enter the **sr-label-index** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action sr-label-index
Tree	sr-label-index
Description	Commands in this context configure the policy action to associate a BGP segment-routing label index value with all /32 BGP labeled IPv4 routes. The use of this action in a policy entry that matches more than one /32 labeled IPv4 route may create SID conflicts. This action only takes effect in BGP peer import policies (and only on received /32 labeled IPv4 routes) and in route table import policies associated with the labeled IPv4 RIB. When this action occurs in a policy applied as a peer import policy, a prefix SID attribute can be added to a received /32 labeled IPv4 route that was not sent with this attribute, or the received prefix SID attribute can be replaced with a new one.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-igp *boolean*

Synopsis	Use the SR label index from the IGP route when present
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action sr-label-index prefer-igp *boolean*
Tree	prefer-igp
Description	When configured to **true**, BGP obtains the SID index from the IGP route (if a SID index is present) and the **configure router bgp segment-routing prefix-sid-range global** command is set to **true**. This command applies only to route table import policies. When configured to **false**, or the SID index is not present in the IGP route, or the **configure router bgp segment-routing prefix-sid-range global** command is not set to **true**, BGP obtains the label index value from the **value** command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *(string | number)*

Synopsis	BGP SR label index associated with routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action sr-label-index value *(string | number)*
Tree	value
Description	This command specifies the BGP SR label index value to be associated with a route or routes. If this command specifies an index value that causes a SID conflict with another BGP route, all conflicting BGP routes are re-advertised with label values based on dynamic allocation rather than SID-based allocation. If this command specifies an index value that causes a SID conflict with an IGP route, the BGP route is re-advertised with a label value based on dynamic allocation rather than SID-based allocation.
String length	1 to 32
Range	0 to 1048575
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-maintenance-policy *(param-midstring | string)*

Synopsis	SR maintenance policy as an action
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action sr-maintenance-policy *(param-midstring | string)*
Tree	sr-maintenance-policy
Description	This command applies a named segment routing maintenance policy as an action for route policies. It is only used for SR policy routes.
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-ecmp *boolean*

Synopsis	Specify the sticky ECMP flag for BGP ECMP routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action sticky-ecmp *boolean*

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Tree	sticky-ecmp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | string)*

Synopsis	OSPF RIP or IS-IS tag applied to routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action tag *(number | string)*
Tree	tag
String length	1 to 32
Range	1 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

type *(number | string)*

Synopsis	OSPF metric type applied to routes
Context	**configure** policy-options policy-statement *named-item-64* entry *number* action type *(number | string)*
Tree	type
String length	1 to 32
Range	1 to 2
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-expression

Synopsis	Enable the **conditional-expression** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* conditional-expression
Tree	conditional-expression
Introduced	25.3.R2

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Platforms	SAR Gen 2

route-exists *string*

Synopsis	Conditional expression to test route existence
Context	**configure** policy-options policy-statement *named-item-64* entry *number* conditional-expression route-exists *string*
Tree	route-exists
String length	1 to 255
String format	'route-exists' must have prefix in [ ] and optional all or none (e.g. [10.0.0.0/8] all)
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** policy-options policy-statement *named-item-64* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

from

Synopsis	Enable the **from** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from
Tree	from
Description	Commands in this context configure policy match criteria based on the source route or the protocol from which it is received. If conditions are not specified, all route sources are considered to match.
Introduced	25.3.R2
Platforms	SAR Gen 2

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aggregate-contributor *boolean*

Synopsis	Enable aggregate route match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from aggregate-contributor *boolean*
Tree	aggregate-contributor
Description	When configured to **true**, matches all routes (BGP and non-BGP) that have contributed to an active aggregate route. If the prefix tree above a particular route includes no active aggregate routes or the most specific active aggregate route in the prefix tree above this route has a policy that rejects the route, then it is not considered as an aggregate-contributor. This match condition is only supported when used in a BGP export policy. If it is used in an entry of a BGP import policy, **vrf-export** policy or **vrf-import** policy, no routes are matched by that entry. When configured to **false**, no routes (BGP and non-BGP) that have contributed to an active aggregate route are matched.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

area *ipv4-address*

Synopsis	OSPF area as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path

Synopsis	Enter the **as-path** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path
Tree	as-path
Introduced	25.3.R2
Platforms	SAR Gen 2

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group *(param-midstring | string)*

Synopsis	AS path group as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path group *(param-midstring | string)*
Tree	group
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **group** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

length

Synopsis	Enter the **length** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path length
Tree	length
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path length qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

unique *boolean*

Synopsis	Use unique AS numbers as matching criteria

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Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path length unique *boolean*
Tree	unique
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(number | string)*

Synopsis	AS numbers in the AS path that match on the BGP route
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path length value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

name *(param-midstring | string)*

Synopsis	AS path name to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from as-path name *(param-midstring | string)*
Tree	name
Description	This command specifies an AS path regular expression name for the route policy entry. Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end", "@variable@end", or "start@variable@".
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **group** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cluster-id

Synopsis	Enter the **cluster-id** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from cluster-id
Tree	cluster-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-prefix-with-host-bits*

Synopsis	Cluster list attribute IP addresses for route matching
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from cluster-id ip-address *ipv4-prefix-with-host-bits*
Tree	ip-address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32
Max. instances	5
Notes	The following elements are part of a choice: **ip-address** or **none-cluster-list**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

none-cluster-list *boolean*

Synopsis	Specify matching BGP routes without a cluster ID
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from cluster-id none-cluster-list *boolean*
Tree	none-cluster-list
Default	false
Notes	The following elements are part of a choice: **ip-address** or **none-cluster-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

color *number*

Synopsis	Color ID as a match criterion

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Context	**configure** policy-options policy-statement *named-item-64* entry *number* from color *number*
Tree	color
Description	This command configures an SR Policy color ID as a route policy match criterion. This match criterion is only used in import policies.
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

community

Synopsis	Enter the **community** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from community
Tree	community
Introduced	25.3.R2
Platforms	SAR Gen 2

count

Synopsis	Enter the **count** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from community count
Tree	count
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from community count qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

Synopsis	Community count to match the community count criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from community count type *keyword*
Tree	type
Options	standard, extended, large
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(number | string)*

Synopsis	Number of BGP communities to match the BGP route
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from community count value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 1024
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

expression *string*

Synopsis	Community expression statement as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from community expression *string*
Tree	expression
Description	This command configures a community expression statement as a match criterion for the policy statement. This statement is a logical expression string composed of logical operators (keywords AND, OR, NOT), community names delimited by square brackets [], and parentheses ( ) to group subexpressions. If the expression contains special characters (for example, #, $, spaces), the entire string must be enclosed in double quotes. The expression specified must already be defined using the **configure policy-options community expression expr** command. The following are examples of valid logical expressions: "[community_list_A] OR ([community_list_B] AND [community_list_C])"

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"NOT [community_list_A]"

"[community_list_A] AND [community_list_B] OR [community_list_C]"

"NOT ([community_list_A] OR [community_list_B] OR [community_list_C])"

String length 1 to 900

Notes The following elements are part of a choice: **expression** or **name**.

Introduced 25.3.R2

Platforms SAR Gen 2

name *(param-midstring-64 | string)*

Synopsis Community list name

Context **configure** policy-options policy-statement *named-item-64* entry *number* from community name *(param-midstring-64 | string)*

Tree name

String length 1 to 64

String format 'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
'name' must not contain square brackets []

Notes The following elements are part of a choice: **expression** or **name**.

Introduced 25.3.R2

Platforms SAR Gen 2

distinguisher *number*

Synopsis SR policy distinguisher as a match criterion

Context **configure** policy-options policy-statement *named-item-64* entry *number* from distinguisher *number*

Tree distinguisher

Description This command configures an SR Policy distinguisher as a route policy match criterion. This match criterion is only used in import policies.

Range 0 to 4294967295

Introduced 25.3.R2

Platforms SAR Gen 2

endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis SR policy endpoint address as a match criterion

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Context	**configure** policy-options policy-statement *named-item-64* entry *number* from endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint
Description	This command configures an SR Policy endpoint address as a route policy match criterion. This match criterion is only used in import policies.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-type *keyword*

Synopsis	EVPN type as a match criterion for the entry
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from evpn-type *keyword*
Tree	evpn-type
Options	ethernet-auto-discovery, mac-ip-advertisement, inclusive-multicast, ethernet-segment, ip-prefix, selective-multicast, multicast-join-sync, multicast-leave-sync, selective-pmsi-auto-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-community-set *reference*

Synopsis	Extended community set as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from extended-community-set *reference*
Tree	extended-community-set
Description	This command filters matched routes based on the route target extended communities they carry or do not carry. The referenced extended community set is a route policy construct that holds a list of exact match route target extended communities (any mix of type 0, type 1 and type 2).
Reference	**configure** policy-options extended-community-set *policy-community-name*
Introduced	25.10.R3
Platforms	SAR Gen 2

extended-community-set-options *keyword*

Synopsis	Extended community set options as a match criterion

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Context	**configure** policy-options policy-statement *named-item-64* entry *number* from extended-community-set-options *keyword*
Tree	extended-community-set-options
Description	This command is used in combination with the referenced extended community set to filter matched routes based on the route target extended communities they carry or do not carry. The referenced extended community set is a route policy construct that holds a list of exact match route target extended communities (any mix of type 0, type 1 and type 2).
Options	any – Matches if route has any of the listed route targets all – Matches if route has all of the listed route targets invert – Matches if route has none of the listed route targets
Default	any
Introduced	25.10.R3
Platforms	SAR Gen 2

external *boolean*

Synopsis	Specify the external IS-IS route as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from external *boolean*
Tree	external
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family *keyword*

Synopsis	Address family as the match condition
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from family *keyword*
Tree	family
Description	This command specifies address families as matching conditions.
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4, sr-policy-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Max. instances	20

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Introduced	25.3.R2
Platforms	SAR Gen 2

group-address *(param-midstring | string)*

Synopsis	Prefix list of multicast group addresses for mathcing
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from group-address *(param-midstring | string)*
Tree	group-address
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

host-ip *(param-midstring | string)*

Synopsis	Prefix list of IGMP host IP addresses for matching
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from host-ip *(param-midstring | string)*
Tree	host-ip
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *(named-item | interface-name | interface-name | interface-name)*

Synopsis	Interface name as match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from interface *(named-item | interface-name | interface-name | interface-name)*
Tree	interface
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Max. instances	1
Notes	This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

interface-subnets

Synopsis	Enter the **interface-subnets** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from interface-subnets
Tree	interface-subnets
Description	Commands in this context configure the applied router instance and interfaces that are used as the matching condition within each policy statement entry when exporting the IP address of the associated interface to a routing protocol. The interface subnet policy statement match criterion is applied to the following unicast use case contexts: • **export**, when used with OSPFv2, OSPFv3, IS-IS, RIP, RIPng, and BGP • **route-table-import**, when used with BGP • **vrf-export**, when used with MP-BGP
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-int-name *interface-name*

Synopsis	Interface name as the match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from interface-subnets ip-int-name *interface-name*
Tree	ip-int-name
Description	This command specifies the interface name to match when exporting the IP address of the associated interface to a routing protocol.
String length	1 to 32
Max. instances	10
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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service *string*

Synopsis	Service ID of the interface subnets
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from interface-subnets service *string*
Tree	service
Default	Base
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	IS-IS route level as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from level *number*
Tree	level
Range	1 to 2
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference

Synopsis	Enter the **local-preference** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from local-preference
Tree	local-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from local-preference qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower

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Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(number | string)*

Synopsis	BGP routes per local preference value or variable name
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from local-preference value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

metric

Synopsis	Enter the **metric** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from metric
Tree	metric
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from metric qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *(number | string)*

Synopsis	Local preference value or variable name
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from metric value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from neighbor
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address to match the neighbor
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from neighbor ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	ip-address
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-list *(param-midstring | string)*

Synopsis	Name to match the neighbor prefix list
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from neighbor prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enter the **next-hop** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from next-hop
Tree	next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the next hop to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from next-hop ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name of a next hop prefix list to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from next-hop prefix-list *(param-midstring | string)*
Tree	prefix-list

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String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

origin *keyword*

Synopsis	Route origin match criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from origin *keyword*
Tree	origin
Description	This command configures a match criteria for the origin attribute of the route. The origin attribute is applicable to BGP routes and to the following subscriber-management routes: Host routes (for example, IPv4 /32 address, or IPv6 SLAAC prefix) carry the origin attribute with AAA, dynamic, or static values, depending on the address assignment method. For CUPS hosts, the origin attribute is always PFCP. Host routes can also be distinguished using the **sub-mgmt** option for the **protocol** command. Dynamically provisioned prefixes or loopback addresses use AAA or PFCP origin values, depending on the protocol that provides the prefix and address. Dynamic routes can also be distinguished using the **direct** option for the **protocol** command. Statically configured prefixes under the subscriber interface do not have an origin attribute. These routes can be distinguished using the **direct** option for the **protocol** command. Framed routes for non-CUPS hosts do not have an origin attribute. Framed routes for CUPS hosts use PFCP for the origin attribute. Alternatively, framed routes can be distinguished using the **managed** option for the **protocol** command. The values that are specific to subscriber-management routes are never carried in BGP updates as part of the BGP origin attribute and are not visible within the BGP process.
Options	igp, egp, incomplete, any, aaa, dynamic, static, bonding, pfcp
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation-state *keyword*

Synopsis	Origin validation state used for match criteria
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from origin-validation-state *keyword*

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Tree	origin-validation-state
Description	This command specifies a validation state that is used to match BGP routes based on their origin validation state.
Options	valid, not-found, invalid
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf-type *number*

Synopsis	OSPF type metric applied to unmatching route entries
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from ospf-type *number*
Tree	ospf-type
Range	1 to 2
Introduced	25.3.R2
Platforms	SAR Gen 2

path-type *keyword*

Synopsis	Path type as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from path-type *keyword*
Tree	path-type
Options	ibgp, ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(string | string)*

Synopsis	Policy statement as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy *(string | string)*
Tree	policy
String length	1 to 255
String format	'expression' must contain [(policy expression)
Introduced	25.3.R2

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Platforms	SAR Gen 2

policy-variables

Synopsis	Enter the **policy-variables** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables
Tree	policy-variables
Introduced	25.3.R2
Platforms	SAR Gen 2

name [variable-name] *policy-var-name*

Synopsis	Enter the **name** list instance
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables name *policy-var-name*
Tree	name
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**variable-name**] *policy-var-name*

Synopsis	Global variable name used to reference policy functions
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables name *policy-var-name*
Tree	name
String length	1 to 32
String format	'policy-var-name' must start and end with @ (e.g. @name@)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the policy variable
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables name *policy-var-name* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

decimal *decimal-number*

Synopsis	Attribute decimal to which variable name is resolved
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables name *policy-var-name* decimal *decimal-number*
Tree	decimal
Range	0.000 to 4294967295.000
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Numerical value of the policy variable
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables name *policy-var-name* number *number*
Tree	number
Range	0 to 4294967295
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *named-item*

Synopsis	Policy variable value
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from policy-variables name *policy-var-name* value *named-item*
Tree	value
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring-64 | string)*

Synopsis	Prefix list as match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list *(param-midstring-64 | string)*
Tree	prefix-list
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list-override [prefix-list] *string*

Synopsis	Enter the **prefix-list-override** list instance
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list-override *string*
Tree	prefix-list-override
Description	Commands in this context convert a prefix list to a specific match type. The routing policy uses the converted list as a match condition.

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The prefix list to be converted can be specified by its name, as an expression containing the name of a global variable that holds the name of the prefix list, or as an expression containing the name of a subroutine variable that holds the name of the prefix list.

Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list**] *string*

Synopsis	Prefix list to be converted
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list-override *string*
Tree	prefix-list-override
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-length *number*

Synopsis	Prefix range end length
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list-override *string* end-length *number*
Tree	end-length
Range	0 to 128
Notes	The following elements are part of a choice: (**end-length** and **start-length**) or **through-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

start-length *number*

Synopsis	Prefix range start length
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list-override *string* start-length *number*
Tree	start-length
Range	0 to 128

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Notes	The following elements are part of a choice: (**end-length** and **start-length**) or **through-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

through-length *number*

Synopsis	Prefix through length
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list-override *string* through-length *number*
Tree	through-length
Range	0 to 128
Notes	The following elements are part of a choice: (**end-length** and **start-length**) or **through-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	New match type for entries in referenced prefix list
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from prefix-list-override *string* type *keyword*
Tree	type
Options	exact, longer, through, range
Default	exact
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol

Synopsis	Enter the **protocol** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from protocol
Tree	protocol
Description	Commands in this context configure the match criterion based on protocols for a route policy statement entry and may be used for both import and export policies.
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance *(keyword | number)*

Synopsis	Instance for protocol IS-IS, OSPF, or OSPFv3 to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from protocol instance *(keyword | number)*
Tree	instance
Description	This command specifies the OSPF, OSPFv3, or IS-IS instance to be used as the match criterion. When this command is explicitly configured, the **name** command must be configured to identify the protocol (OSPF, OSPFv3, or IS-IS).
Range	0 to 127
Options	all
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	List of protocol names as the match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from protocol name *keyword*
Tree	name
Description	This command specifies a protocol list for the match criterion. If multiple protocols are specified, the protocol names must belong to the following protocol set: • direct • static • isis • aggregate • bgp • bgp-label • direct-interface If multiple protocols are specified, the **instance** command cannot be explicitly configured. The protocol **direct-interface** route type matches the specific direct interface host IPv4 / 32 and IPv6 /128 routes.

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Options	direct, static, bgp, isis, ospf, rip, aggregate, bgp-vpn, igmp, pim, ospf3, ldp, sub-mgmt, mld, managed, vpn-leak, nat, periodic, ipsec, dhcpv6-pd, dhcpv6-na, dhcpv6-ta, dhcpv6-pd-excl, ripng, bgp-label, direct-interface, arp-nd, rib-api, dhcp-client, evpn-ifl, srv6, video, evpn-ifl-host
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

route-distinguisher-list *(param-midstring-64 | string)*

Synopsis	Route distinguisher list as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from route-distinguisher-list *(param-midstring-64 | string)*
Tree	route-distinguisher-list
Description	This command specifies the (possibly parameterized) name of a route distinguisher (RD) list. This match condition is supported by policies applied as VRF-import or BGP peer import policies. A BGP route can match a policy entry with this match criterion if the NLRI field contains an RD that is matched by at least one of the entries in the RD list. BGP routes belonging to address families other than VPN-IPv4, VPN-IPv6, MCAST-VPN-IPv4, MCAST-VPN-IPv6, EVPN, FlowSpec-VPN IPv4, FlowSpec-VPN IPv6, MVPN-IPv4, or MVPN-IPv6 route do not match policy entries with this match criterion.
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from source-address
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from source-address ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name of a source address prefix list to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from source-address prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	State used as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from state *keyword*
Tree	state
Description	This command configures a criterion that identifies in resilient gateways which routes are associated with an active context and which routes are associated with a standby context.
Options	srrp-master, srrp-non-master, ipsec-master-with-peer, ipsec-master-without-peer, ipsec-non-master, fsg-active, fsg-standby, fsg-active-path-restoration
Introduced	25.3.R2
Platforms	SAR Gen 2

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tag *(number | keyword)*

Synopsis	Route tag used as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* from tag *(number | keyword)*
Tree	tag
Range	1 to 4294967295
Options	no-tag
Introduced	25.3.R2
Platforms	SAR Gen 2

to

Synopsis	Enable the **to** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to
Tree	to
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	IS-IS route level as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to level *number*
Tree	level
Range	1 to 2
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to neighbor
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address to match the neighbor
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to neighbor ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	ip-address
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name to match the neighbor prefix list
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to neighbor prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring-64 | string)*

Synopsis	Prefix list as match criterion
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to prefix-list *(param-midstring-64 | string)*
Tree	prefix-list
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol

Synopsis	Enter the **protocol** context
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to protocol
Tree	protocol
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *(keyword | number)*

Synopsis	Instance for the IS-IS, OSPF, or OSPF3 protocol
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to protocol instance *(keyword | number)*
Tree	instance
Range	0 to 127
Options	all
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Protocol name to match
Context	**configure** policy-options policy-statement *named-item-64* entry *number* to protocol name *keyword*
Tree	name
Options	bgp, isis, ospf, rip, bgp-vpn, ospf3, ldp, vpn-leak, ripng, bgp-label, evpn-ifl
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry-type *keyword*

Synopsis	The entry type for a route policy entry
Context	**configure** policy-options policy-statement *named-item-64* entry-type *keyword*
Tree	entry-type
Options	numbered, named
Default	numbered
Introduced	25.3.R2
Platforms	SAR Gen 2

named-entry [entry-name] *named-item-255*

Synopsis	Enter the **named-entry** list instance
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255*
Tree	named-entry
Max. instances	16384
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-name**] *named-item-255*

Synopsis	Route policy entry name
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255*
Tree	named-entry
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enable the **action** context

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

action-type *keyword*

Synopsis	Action type for routes matching the route policy entry
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action action-type *keyword*
Tree	action-type
Options	accept, reject, next-entry, next-policy
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

add-paths-send-limit *(number | keyword)*

Synopsis	BGP Add-Paths send limit applied for routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action add-paths-send-limit *(number | keyword)*
Tree	add-paths-send-limit
Range	1 to 16
Options	multipaths
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tag-policy *(param-midstring-64 | string)*

Synopsis	Administrative tag policy name
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action admin-tag-policy *(param-midstring-64 | string)*
Tree	admin-tag-policy
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)

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Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-label *keyword*

Synopsis	Label allocation for matched BGP routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action advertise-label *keyword*
Tree	advertise-label
Description	This command configures the label allocation method for advertised routes. The effect of this command depends on the context where the associated policy is applied.
Options	per-prefix, pop, pop-and-forward
Introduced	25.3.R2
Platforms	SAR Gen 2

aigp-metric

Synopsis	Enter the **aigp-metric** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action aigp-metric
Tree	aigp-metric
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(number | string)*

Synopsis	AIGP metric to add
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action aigp-metric add *(number | string)*
Tree	add
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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set *(keyword | number | string)*

Synopsis	AIGP metric
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action aigp-metric set *(keyword | number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
Options	igp
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path

Synopsis	Enter the **as-path** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action as-path
Tree	as-path
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(param-midstring | string)*

Synopsis	AS path to add
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action as-path add *(param-midstring | string)*
Tree	add
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **add** or **replace**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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replace *(param-midstring | string)*

Synopsis	AS path to replace
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action as-path replace *(param-midstring | string)*
Tree	replace
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **add** or **replace**.
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path-prepend

Synopsis	Enter the **as-path-prepend** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action as-path-prepend
Tree	as-path-prepend
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path *(number | string | keyword)*

Synopsis	AS number to prepend to the AS path attribute
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action as-path-prepend as-path *(number | string | keyword)*
Tree	as-path
String length	1 to 32
Range	1 to 4294967295
Options	most-recent
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

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repeat *(number | string)*

Synopsis	Number of times to prepend the specified AS number
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action as-path-prepend repeat *(number | string)*
Tree	repeat
String length	1 to 32
Range	1 to 50
Default	1
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-high-priority *boolean*

Synopsis	Tag routes as high priority for fast table updates
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-high-priority *boolean*
Tree	bgp-high-priority
Description	When configured to **true**, eligible BGP routes matched by the policy entry or policy default-action are tagged as needing faster route table updates. This action applies only when the policy is applied as a BGP import policy to a base router BGP peer or VPRN BGP peer and applies only to the following route types: • IPv4 • label-IPv4 • IPv6 • label-IPv6 This command is useful when the BGP RIB contains a large number of routes and quick routing table updates are needed for a small subset of these routes. The effectiveness of this command decreases as the subset becomes a larger proportion of the total RIB. When configured to **false**, no routes are tagged for faster route table updates.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bgp-leak *boolean*

Synopsis	Allow leaking for BGP routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-leak *boolean*
Tree	bgp-leak
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-med

Synopsis	Enter the **bgp-med** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-med
Tree	bgp-med
Introduced	25.3.R2
Platforms	SAR Gen 2

adjust *string*

Synopsis	BGP-MED adjustment
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-med adjust *string*
Tree	adjust
String length	1 to 64
String format	'expression' must contain _igp_ or _med_ or @parameter@ 'expression' must contain one operator: +, - or *
Notes	The following elements are part of a choice: **adjust** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(keyword | number | string)*

Synopsis	BGP-MED assignment

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-med set *(keyword | number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
Options	igp, min-igp
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **adjust** or **set**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-tunnel-metric

Synopsis	Enter the **bgp-tunnel-metric** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-tunnel-metric
Tree	bgp-tunnel-metric
Description	Commands in this context configure the tunnel-table metrics associated with BGP label unicast routes that pass through to the default action of the policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-aigp *boolean*

Synopsis	Use AIGP attribute as tunnel metric when present
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-tunnel-metric prefer-aigp *boolean*
Tree	prefer-aigp
Description	When configured to **true**, and a BGP-LU route is selected for installation in TTM and it is matched by this action in a BGP import policy. The TTM metric of the tunnel is set to the AIGP metric value of the BGP-LU route plus the IGP cost to reach the BGP next-hop if it has the AIGP path attribute, otherwise it is set to the value implied by the value leaf. When configured to **false**, the AIGP attribute is removed from the advertised routes and is ignored if present in the received routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefer-med *boolean*

Synopsis	Use MED attribute as tunnel metric when present
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-tunnel-metric prefer-med *boolean*
Tree	prefer-med
Description	When configured to **true**, if a BGP-LU route is selected for installation in the TTM and is matched by this action in a BGP import policy, the TTM metric of the tunnel is set to the MED metric value of the BGP-LU route with the IGP cost to reach the BGP next hop added to it. When configured to **false**, the BGP tunnel metric associated with the BGP-LU route accepted by this policy action is not determined using the MED attribute.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(string | number)*

Synopsis	BGP tunnel table metric value
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action bgp-tunnel-metric value *(string | number)*
Tree	value
Description	This command configures a BGP tunnel metric is assigned to routes that do not match any entry. If a BGP-LU route is selected for installation in TTM and it is matched by this action in a BGP import policy, the TTM metric of the associated tunnel is set to this value (or the value associated with the parameter name) if either: • the prefer-aigp option is set to false • the prefer-aigp option is set to true but the BGP-LU route does not have an AIGP attribute
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

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community

Synopsis	Enter the **community** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action community
Tree	community
Introduced	25.3.R2
Platforms	SAR Gen 2

add *(param-midstring-64 | string)*

Synopsis	List of community names to add
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action community add *(param-midstring-64 | string)*
Tree	add
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

remove *(param-midstring-64 | string)*

Synopsis	List of community names to remove
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action community remove *(param-midstring-64 | string)*
Tree	remove
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

replace *(param-midstring-64 | string)*

Synopsis	List of community names to replace
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action community replace *(param-midstring-64 | string)*
Tree	replace
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	The following elements are part of a choice: (**add** and **remove**) or **replace**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

create-mpls-tunnel *boolean*

Synopsis	Create an MPLS tunnel
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action create-mpls-tunnel *boolean*
Tree	create-mpls-tunnel
Description	When configured to **true**, the router creates an MPLS tunnel. This command is supported for only the following address families: • evpn • ipv4 • ipv6 • label-ipv4 • label-ipv6 • vpn-ipv4 • vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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create-udp-tunnel *boolean*

Synopsis	Create an MPLS-over-UDP tunnel
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action create-udp-tunnel *boolean*
Tree	create-udp-tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *(keyword | param-midstring | string)*

Synopsis	Damping profile used for routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action damping *(keyword | param-midstring | string)*
Tree	damping
String length	1 to 32
Options	none
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo *(string | number)*

Synopsis	Flexible algorithm for BGP next-hop autobind operation
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action flex-algo *(string | number)*
Tree	flex-algo
Description	This command configures the Flex-Algorithm for use in the BGP next-hop automatic bind operation in a BGP import policy. A Flex-Algorithm aware autobind of the BGP next-hop is enabled when the route is matched by the policy statement entry. Flex-Algorithm aware next-hop lookup is supported for unicast BGP, VPRN, and BGP-LU. This command is not supported for multicast address families.
String length	1 to 32
Range	128 to 255
String format	'param-name' must start and end with @ (e.g. @name@)

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Introduced	25.3.R2
Platforms	SAR Gen 2

install-backup-path *boolean*

Synopsis	Install a preprogrammed backup path for the prefix
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action install-backup-path *boolean*
Tree	install-backup-path
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *(number | string)*

Synopsis	BGP local preference for routes not matching any entry
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action local-preference *(number | string)*
Tree	local-preference
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

metric

Synopsis	Enter the **metric** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action metric
Tree	metric
Introduced	25.3.R2
Platforms	SAR Gen 2

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add *(number | string)*

Synopsis	Metric to add
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action metric add *(number | string)*
Tree	add
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

set *(number | string)*

Synopsis	Metric to assign
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action metric set *(number | string)*
Tree	set
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subtract *(number | string)*

Synopsis	Metric to subtract
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action metric subtract *(number | string)*
Tree	subtract
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)

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Notes	The following elements are part of a choice: **add**, **set**, or **subtract**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)*

Synopsis	Next-hop IP address applied to routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action next-hop *(keyword | ipv4-address-no-zone | ipv6-address-no-zone | string)*
Tree	next-hop
String length	1 to 32
Options	peer-address, self
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

origin *(keyword | string)*

Synopsis	BGP origin for routes that are exported into BGP
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action origin *(keyword | string)*
Tree	origin
String length	1 to 32
Options	igp, egp, incomplete
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation-state *(keyword | string)*

Synopsis	Origin validation state for routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action origin-validation-state *(keyword | string)*
Tree	origin-validation-state
String length	1 to 32
Options	valid, not-found, invalid

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String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *(number | string)*

Synopsis	Route preference applied to routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action preference *(number | string)*
Tree	preference
String length	1 to 32
Range	1 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

resolve-static *boolean*

Synopsis	Resolve next hop of a static route for the BGP next hop
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action resolve-static *boolean*
Tree	resolve-static
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-install *boolean*

Synopsis	Allow BGP route installation in the route table
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action route-table-install *boolean*
Tree	route-table-install
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-label-index

Synopsis	Enter the **sr-label-index** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action sr-label-index
Tree	sr-label-index
Description	Commands in this context configure the policy action to associate a BGP segment-routing label index value with all /32 BGP labeled IPv4 routes. The use of this action in a policy entry that matches more than one /32 labeled IPv4 route may create SID conflicts. This action only takes effect in BGP peer import policies (and only on received /32 labeled IPv4 routes) and in route table import policies associated with the labeled IPv4 RIB. When this action occurs in a policy applied as a peer import policy, a prefix SID attribute can be added to a received /32 labeled IPv4 route that was not sent with this attribute, or the received prefix SID attribute can be replaced with a new one.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-igp *boolean*

Synopsis	Use the SR label index from the IGP route when present
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action sr-label-index prefer-igp *boolean*
Tree	prefer-igp
Description	When configured to **true**, BGP obtains the SID index from the IGP route (if a SID index is present) and the **configure router bgp segment-routing prefix-sid-range global** command is set to **true**. This command applies only to route table import policies. When configured to **false**, or the SID index is not present in the IGP route, or the **configure router bgp segment-routing prefix-sid-range global** command is not set to **true**, BGP obtains the label index value from the **value** command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(string | number)*

Synopsis	BGP SR label index associated with routes

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action sr-label-index value *(string | number)*
Tree	value
Description	This command specifies the BGP SR label index value to be associated with a route or routes. If this command specifies an index value that causes a SID conflict with another BGP route, all conflicting BGP routes are re-advertised with label values based on dynamic allocation rather than SID-based allocation. If this command specifies an index value that causes a SID conflict with an IGP route, the BGP route is re-advertised with a label value based on dynamic allocation rather than SID-based allocation.
String length	1 to 32
Range	0 to 1048575
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-maintenance-policy *(param-midstring | string)*

Synopsis	SR maintenance policy as an action
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action sr-maintenance-policy *(param-midstring | string)*
Tree	sr-maintenance-policy
Description	This command applies a named segment routing maintenance policy as an action for route policies. It is only used for SR policy routes.
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-ecmp *boolean*

Synopsis	Specify the sticky ECMP flag for BGP ECMP routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action sticky-ecmp *boolean*
Tree	sticky-ecmp
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | string)*

Synopsis	OSPF RIP or IS-IS tag applied to routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action tag *(number | string)*
Tree	tag
String length	1 to 32
Range	1 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

type *(number | string)*

Synopsis	OSPF metric type applied to routes
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* action type *(number | string)*
Tree	type
String length	1 to 32
Range	1 to 2
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-expression

Synopsis	Enable the **conditional-expression** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* conditional-expression
Tree	conditional-expression
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-exists *string*

Synopsis	Conditional expression to test route existence
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* conditional-expression route-exists *string*
Tree	route-exists
String length	1 to 255
String format	'route-exists' must have prefix in [ ] and optional all or none (e.g. [10.0.0.0/8] all)
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

from

Synopsis	Enable the **from** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from
Tree	from
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregate-contributor *boolean*

Synopsis	Enable aggregate route match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from aggregate-contributor *boolean*

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Tree	aggregate-contributor
Description	When configured to **true**, matches all routes (BGP and non-BGP) that have contributed to an active aggregate route. If the prefix tree above a particular route includes no active aggregate routes or the most specific active aggregate route in the prefix tree above this route has a policy that rejects the route, then it is not considered as an aggregate-contributor. This match condition is only supported when used in a BGP export policy. If it is used in an entry of a BGP import policy, **vrf-export** policy or **vrf-import** policy, no routes are matched by that entry. When configured to **false**, no routes (BGP and non-BGP) that have contributed to an active aggregate route are matched.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

area *ipv4-address*

Synopsis	OSPF area as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path

Synopsis	Enter the **as-path** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path
Tree	as-path
Introduced	25.3.R2
Platforms	SAR Gen 2

group *(param-midstring | string)*

Synopsis	AS path group as a match criterion

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path group *(param-midstring | string)*
Tree	group
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **group** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

length

Synopsis	Enter the **length** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path length
Tree	length
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path length qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

unique *boolean*

Synopsis	Use unique AS numbers as matching criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path length unique *boolean*
Tree	unique
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

value *(number | string)*

Synopsis	AS numbers in the AS path that match on the BGP route
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path length value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 255
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

name *(param-midstring | string)*

Synopsis	AS path name to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from as-path name *(param-midstring | string)*
Tree	name
Description	This command specifies an AS path regular expression name for the route policy entry. Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end", "@variable@end", or "start@variable@".
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **group** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id

Synopsis	Enter the **cluster-id** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from cluster-id
Tree	cluster-id

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-prefix-with-host-bits*

Synopsis	Cluster list attribute IP addresses for route matching
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from cluster-id ip-address *ipv4-prefix-with-host-bits*
Tree	ip-address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32
Max. instances	5
Notes	The following elements are part of a choice: **ip-address** or **none-cluster-list**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

none-cluster-list *boolean*

Synopsis	Specify matching BGP routes without a cluster ID
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from cluster-id none-cluster-list *boolean*
Tree	none-cluster-list
Default	false
Notes	The following elements are part of a choice: **ip-address** or **none-cluster-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

color *number*

Synopsis	Color ID as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from color *number*
Tree	color
Description	This command configures an SR Policy color ID as a route policy match criterion. This match criterion is only used in import policies.

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Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

community

Synopsis	Enter the **community** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community
Tree	community
Introduced	25.3.R2
Platforms	SAR Gen 2

count

Synopsis	Enter the **count** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community count
Tree	count
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community count qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Community count to match the community count criteria

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community count type *keyword*
Tree	type
Options	standard, extended, large
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(number | string)*

Synopsis	Number of BGP communities to match the BGP route
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community count value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 1024
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

expression *string*

Synopsis	Community expression statement as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community expression *string*
Tree	expression
Description	This command configures a community expression statement as a match criterion for the policy statement. This statement is a logical expression string composed of logical operators (keywords AND, OR, NOT), community names delimited by square brackets [], and parentheses ( ) to group subexpressions. If the expression contains special characters (for example, #, $, spaces), the entire string must be enclosed in double quotes. The expression specified must already be defined using the **configure policy-options community expression expr** command. The following are examples of valid logical expressions: "[community_list_A] OR ([community_list_B] AND [community_list_C])" "NOT [community_list_A]" "[community_list_A] AND [community_list_B] OR [community_list_C]" "NOT ([community_list_A] OR [community_list_B] OR [community_list_C])"

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String length	1 to 900
Notes	The following elements are part of a choice: **expression** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *(param-midstring-64 | string)*

Synopsis	Community list name
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from community name *(param-midstring-64 | string)*
Tree	name
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix) 'name' must not contain square brackets []
Notes	The following elements are part of a choice: **expression** or **name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

distinguisher *number*

Synopsis	SR policy distinguisher as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from distinguisher *number*
Tree	distinguisher
Description	This command configures an SR Policy distinguisher as a route policy match criterion. This match criterion is only used in import policies.
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	SR policy endpoint address as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint

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Description	This command configures an SR Policy endpoint address as a route policy match criterion. This match criterion is only used in import policies.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-type *keyword*

Synopsis	EVPN type as a match criterion for the entry
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from evpn-type *keyword*
Tree	evpn-type
Options	ethernet-auto-discovery, mac-ip-advertisement, inclusive-multicast, ethernet-segment, ip-prefix, selective-multicast, multicast-join-sync, multicast-leave-sync, selective-pmsi-auto-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-community-set *reference*

Synopsis	Extended community set as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from extended-community-set *reference*
Tree	extended-community-set
Description	This command filters matched routes based on the route target extended communities they carry or do not carry. The referenced extended community set is a route policy construct that holds a list of exact match route target extended communities (any mix of type 0, type 1 and type 2).
Reference	**configure** policy-options extended-community-set *policy-community-name*
Introduced	25.10.R3
Platforms	SAR Gen 2

extended-community-set-options *keyword*

Synopsis	Extended community set options as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from extended-community-set-options *keyword*
Tree	extended-community-set-options

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Description	This command is used in combination with the referenced extended community set to filter matched routes based on the route target extended communities they carry or do not carry. The referenced extended community set is a route policy construct that holds a list of exact match route target extended communities (any mix of type 0, type 1 and type 2).
Options	any – Matches if route has any of the listed route targets all – Matches if route has all of the listed route targets invert – Matches if route has none of the listed route targets
Default	any
Introduced	25.10.R3
Platforms	SAR Gen 2

external *boolean*

Synopsis	Specify the external IS-IS route as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from external *boolean*
Tree	external
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family *keyword*

Synopsis	Address family as the match condition
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from family *keyword*
Tree	family
Description	This command specifies address families as matching conditions.
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4, sr-policy-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Max. instances	20
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-address *(param-midstring | string)*

Synopsis	Prefix list of multicast group addresses for mathcing
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from group-address *(param-midstring | string)*
Tree	group-address
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

host-ip *(param-midstring | string)*

Synopsis	Prefix list of IGMP host IP addresses for matching
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from host-ip *(param-midstring | string)*
Tree	host-ip
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *(named-item | interface-name | interface-name | interface-name)*

Synopsis	Interface name as match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from interface *(named-item | interface-name | interface-name | interface-name)*
Tree	interface
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Max. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-subnets

Synopsis	Enter the **interface-subnets** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from interface-subnets
Tree	interface-subnets
Description	Commands in this context configure the applied router instance and interfaces that are used as the matching condition within each policy statement entry when exporting the IP address of the associated interface to a routing protocol. The interface subnet policy statement match criterion is applied to the following unicast use case contexts: • **export**, when used with OSPFv2, OSPFv3, IS-IS, RIP, RIPng, and BGP • **route-table-import**, when used with BGP • **vrf-export**, when used with MP-BGP
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-int-name *interface-name*

Synopsis	Interface name as the match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from interface-subnets ip-int-name *interface-name*
Tree	ip-int-name
Description	This command specifies the interface name to match when exporting the IP address of the associated interface to a routing protocol.
String length	1 to 32
Max. instances	10
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

service *string*

Synopsis	Service ID of the interface subnets
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from interface-subnets service *string*

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Tree	service
Default	Base
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	IS-IS route level as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from level *number*
Tree	level
Range	1 to 2
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference

Synopsis	Enter the **local-preference** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from local-preference
Tree	local-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from local-preference qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *(number | string)*

Synopsis	BGP routes per local preference value or variable name
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from local-preference value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

metric

Synopsis	Enter the **metric** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from metric
Tree	metric
Introduced	25.3.R2
Platforms	SAR Gen 2

qualifier *keyword*

Synopsis	Higher or lower values to be accepted as match criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from metric qualifier *keyword*
Tree	qualifier
Options	equal, or-higher, or-lower
Default	equal
Introduced	25.3.R2
Platforms	SAR Gen 2

value *(number | string)*

Synopsis	Local preference value or variable name

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from metric value *(number | string)*
Tree	value
String length	1 to 32
Range	0 to 4294967295
String format	'param-name' must start and end with @ (e.g. @name@)
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from neighbor
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address to match the neighbor
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from neighbor ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	ip-address
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name to match the neighbor prefix list

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Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from neighbor prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enter the **next-hop** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from next-hop
Tree	next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the next hop to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from next-hop ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name of a next hop prefix list to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from next-hop prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)

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Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

origin *keyword*

Synopsis	Route origin match criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from origin *keyword*
Tree	origin
Description	This command configures a match criteria for the origin attribute of the route. The origin attribute is applicable to BGP routes and to the following subscriber-management routes: Host routes (for example, IPv4 /32 address, or IPv6 SLAAC prefix) carry the origin attribute with AAA, dynamic, or static values, depending on the address assignment method. For CUPS hosts, the origin attribute is always PFCP. Host routes can also be distinguished using the **sub-mgmt** option for the **protocol** command. Dynamically provisioned prefixes or loopback addresses use AAA or PFCP origin values, depending on the protocol that provides the prefix and address. Dynamic routes can also be distinguished using the **direct** option for the **protocol** command. Statically configured prefixes under the subscriber interface do not have an origin attribute. These routes can be distinguished using the **direct** option for the **protocol** command. Framed routes for non-CUPS hosts do not have an origin attribute. Framed routes for CUPS hosts use PFCP for the origin attribute. Alternatively, framed routes can be distinguished using the **managed** option for the **protocol** command. The values that are specific to subscriber-management routes are never carried in BGP updates as part of the BGP origin attribute and are not visible within the BGP process.
Options	igp, egp, incomplete, any, aaa, dynamic, static, bonding, pfcp
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation-state *keyword*

Synopsis	Origin validation state used for match criteria
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from origin-validation-state *keyword*
Tree	origin-validation-state
Description	This command specifies a validation state that is used to match BGP routes based on their origin validation state.

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Options	valid, not-found, invalid
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf-type *number*

Synopsis	OSPF type metric applied to unmatching route entries
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from ospf-type *number*
Tree	ospf-type
Range	1 to 2
Introduced	25.3.R2
Platforms	SAR Gen 2

path-type *keyword*

Synopsis	Path type as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from path-type *keyword*
Tree	path-type
Options	ibgp, ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(string | string)*

Synopsis	Policy statement as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy *(string | string)*
Tree	policy
String length	1 to 255
String format	'expression' must contain [(policy expression)
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-variables

Synopsis	Enter the **policy-variables** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables
Tree	policy-variables
Introduced	25.3.R2
Platforms	SAR Gen 2

name [variable-name] *policy-var-name*

Synopsis	Enter the **name** list instance
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables name *policy-var-name*
Tree	name
Description	Commands in this context configure global variables for use across BGP peers of a common type (transit, peer, customer, and so on).
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**variable-name**] *policy-var-name*

Synopsis	Global variable name used to reference policy functions
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables name *policy-var-name*
Tree	name
String length	1 to 32
String format	'policy-var-name' must start and end with @ (e.g. @name@)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the policy variable
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables name *policy-var-name* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

decimal *decimal-number*

Synopsis	Attribute decimal to which variable name is resolved
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables name *policy-var-name* decimal *decimal-number*
Tree	decimal
Range	0.000 to 4294967295.000
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Numerical value of the policy variable
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables name *policy-var-name* number *number*
Tree	number
Range	0 to 4294967295
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *named-item*

Synopsis	Policy variable value
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from policy-variables name *policy-var-name* value *named-item*
Tree	value
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **address**, **decimal**, **number**, **prefix**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring-64 | string)*

Synopsis	Prefix list as match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list *(param-midstring-64 | string)*
Tree	prefix-list
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list-override [prefix-list] *string*

Synopsis	Enter the **prefix-list-override** list instance
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list-override *string*
Tree	prefix-list-override
Description	Commands in this context convert a prefix list to a specific match type. The routing policy uses the converted list as a match condition.

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The prefix list to be converted can be specified by its name, as an expression containing the name of a global variable that holds the name of the prefix list, or as an expression containing the name of a subroutine variable that holds the name of the prefix list.

Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list**] *string*

Synopsis	Prefix list to be converted
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list-override *string*
Tree	prefix-list-override
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-length *number*

Synopsis	Prefix range end length
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list-override *string* end-length *number*
Tree	end-length
Range	0 to 128
Notes	The following elements are part of a choice: (**end-length** and **start-length**) or **through-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

start-length *number*

Synopsis	Prefix range start length
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list-override *string* start-length *number*
Tree	start-length
Range	0 to 128

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Notes	The following elements are part of a choice: (**end-length** and **start-length**) or **through-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

through-length *number*

Synopsis	Prefix through length
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list-override *string* through-length *number*
Tree	through-length
Range	0 to 128
Notes	The following elements are part of a choice: (**end-length** and **start-length**) or **through-length**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	New match type for entries in referenced prefix list
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from prefix-list-override *string* type *keyword*
Tree	type
Options	exact, longer, through, range
Default	exact
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol

Synopsis	Enter the **protocol** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from protocol
Tree	protocol
Description	Commands in this context configure the match criterion based on protocols for a route policy statement entry and may be used for both import and export policies.

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Introduced	25.3.R2
Platforms	SAR Gen 2

instance *(keyword | number)*

Synopsis	Instance for protocol IS-IS, OSPF, or OSPFv3 to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from protocol instance *(keyword | number)*
Tree	instance
Description	This command specifies the OSPF, OSPFv3, or IS-IS instance to be used as the match criterion. When this command is explicitly configured, the **name** command must be configured to identify the protocol (OSPF, OSPFv3, or IS-IS).
Range	0 to 127
Options	all
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	List of protocol names as the match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from protocol name *keyword*
Tree	name
Description	This command specifies a protocol list for the match criterion. If multiple protocols are specified, the protocol names must belong to the following protocol set: • direct • static • isis • aggregate • bgp • bgp-label • direct-interface If multiple protocols are specified, the **instance** command cannot be explicitly configured.

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	The protocol **direct-interface** route type matches the specific direct interface host IPv4 / 32 and IPv6 /128 routes.
Options	direct, static, bgp, isis, ospf, rip, aggregate, bgp-vpn, igmp, pim, ospf3, ldp, sub-mgmt, mld, managed, vpn-leak, nat, periodic, ipsec, dhcpv6-pd, dhcpv6-na, dhcpv6-ta, dhcpv6-pd-excl, ripng, bgp-label, direct-interface, arp-nd, rib-api, dhcp-client, evpn-ifl, srv6, video, evpn-ifl-host
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

route-distinguisher-list *(param-midstring-64 | string)*

Synopsis	Route distinguisher list as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from route-distinguisher-list *(param-midstring-64 | string)*
Tree	route-distinguisher-list
Description	This command specifies the (possibly parameterized) name of a route distinguisher (RD) list. This match condition is supported by policies applied as VRF-import or BGP peer import policies. A BGP route can match a policy entry with this match criterion if the NLRI field contains an RD that is matched by at least one of the entries in the RD list. BGP routes belonging to address families other than VPN-IPv4, VPN-IPv6, MCAST-VPN-IPv4, MCAST-VPN-IPv6, EVPN, FlowSpec-VPN IPv4, FlowSpec-VPN IPv6, MVPN-IPv4, or MVPN-IPv6 route do not match policy entries with this match criterion.
String length	1 to 64
String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from source-address
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from source-address ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name of a source address prefix list to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from source-address prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

state *keyword*

Synopsis	State used as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from state *keyword*
Tree	state
Description	This command configures a criterion that identifies in resilient gateways which routes are associated with an active context and which routes are associated with a standby context.
Options	srrp-master, srrp-non-master, ipsec-master-with-peer, ipsec-master-without-peer, ipsec-non-master, fsg-active, fsg-standby, fsg-active-path-restoration
Introduced	25.3.R2
Platforms	SAR Gen 2

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tag *(number | keyword)*

Synopsis	Route tag used as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* from tag *(number | keyword)*
Tree	tag
Range	1 to 4294967295
Options	no-tag
Introduced	25.3.R2
Platforms	SAR Gen 2

to

Synopsis	Enable the **to** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to
Tree	to
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	IS-IS route level as a match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to level *number*
Tree	level
Range	1 to 2
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor

Synopsis	Enter the **neighbor** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to neighbor
Tree	neighbor

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address to match the neighbor
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to neighbor ip-address *(ipv4-address-no-zone | ipv6-address-no-zone | ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	ip-address
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring | string)*

Synopsis	Name to match the neighbor prefix list
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to neighbor prefix-list *(param-midstring | string)*
Tree	prefix-list
String length	1 to 32
String format	'param-midstring' must contain @param@ somewhere (e.g. prefix@name@suffix)
Notes	The following elements are part of a choice: **ip-address** or **prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *(param-midstring-64 | string)*

Synopsis	Prefix list as match criterion
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to prefix-list *(param-midstring-64 | string)*
Tree	prefix-list
String length	1 to 64

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String format	'param-midstring-64' must contain @param@ somewhere (e.g. prefix@name@suffix)
Max. instances	28
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol

Synopsis	Enter the **protocol** context
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to protocol
Tree	protocol
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *(keyword | number)*

Synopsis	Instance for the IS-IS, OSPF, or OSPF3 protocol
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to protocol instance *(keyword | number)*
Tree	instance
Range	0 to 127
Options	all
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Protocol name to match
Context	**configure** policy-options policy-statement *named-item-64* named-entry *named-item-255* to protocol name *keyword*
Tree	name
Options	bgp, isis, ospf, rip, bgp-vpn, ospf3, ldp, vpn-leak, ripng, bgp-label, evpn-ifl

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Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list [name] *named-item-64*

Synopsis	Enter the **prefix-list** list instance
Context	**configure** policy-options prefix-list *named-item-64*
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item-64*

Synopsis	Prefix list name
Context	**configure** policy-options prefix-list *named-item-64*
Tree	prefix-list
Description	This command specifies the name for a prefix list. Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@", "start@variable@end", "@variable@end", or "start@variable@".
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)* type *keyword*

Synopsis	Enter the **prefix** list instance
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix associated with the prefix length
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Prefix list match type
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword*
Tree	prefix
Options	exact, longer, through, range, to, address-mask
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-length *number*

Synopsis	Prefix range end length
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* end-length *number*
Tree	end-length
Range	0 to 128
Notes	The following elements are part of a choice: **mask-pattern**, (**end-length** and **start-length**), **through-length**, or **to-prefix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask-pattern [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **mask-pattern**

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Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* mask-pattern *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	mask-pattern
Notes	The following elements are part of a choice: **mask-pattern**, (**end-length** and **start-length**), **through-length**, or **to-prefix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Address mask for matching routes to the prefix entry
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* mask-pattern *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	mask-pattern
Description	This command specifies the address mask to compare against the prefix entry to determine whether the route is considered a match. A route matches the prefix entry if the following conditions are met. • The bitwise logical AND of the prefix address and its mask matches the bitwise logical AND of the route address and its mask. • The prefix length of the prefix entry matches the prefix length of the route. For example, for a prefix entry of 17.1.0.0/32, routes with an address 17.1.x.0 (where x can be 0 through 255) and a prefix length of 32 match the entry.
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

start-length *number*

Synopsis	Start in the prefix range length
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* start-length *number*
Tree	start-length
Range	0 to 128
Notes	The following elements are part of a choice: **mask-pattern**, (**end-length** and **start-length**), **through-length**, or **to-prefix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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through-length *number*

Synopsis	Prefix through length
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* through-length *number*
Tree	through-length
Range	0 to 128
Notes	The following elements are part of a choice: **mask-pattern**, (**end-length** and **start-length**), **through-length**, or **to-prefix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

to-prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Add a list entry for **to-prefix**
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* to-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	to-prefix
Notes	The following elements are part of a choice: **mask-pattern**, (**end-length** and **start-length**), **through-length**, or **to-prefix**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for "to" match type
Context	**configure** policy-options prefix-list *named-item-64* prefix *(ipv4-prefix | ipv6-prefix)* type *keyword* to-prefix *(ipv4-prefix | ipv6-prefix)*
Tree	to-prefix
Description	This command configures an IP prefix to use in a route policy prefix list for the to match type. If the prefix entry is in the format *prefix1*/*length1*, and this command is configured in the format *prefix2*/*length2*, a route matches the prefix entry if the following conditions are met. • The route shares the same most-significant bits (specified by *length1*) with the prefix entry • The route shares the same most-significant bits (specified by *length2*) with this IP prefix value • The prefix length of the route is in the range of *length1* to *length2* (inclusive)

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For example, for a prefix entry of 10.0.0.8 with a to IP prefix value of 10.0.0.0/32, routes 10.0.0.0/8, 10.0.0.0/9, 10.0.0.0.0/10, and so on, to 10.0.0.0/32 are considered matches for the prefix entry.

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-distinguisher-list [name] *named-item-64*

Synopsis	Enter the **route-distinguisher-list** list instance
Context	**configure** policy-options route-distinguisher-list *named-item-64*
Tree	route-distinguisher-list
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item-64*

Synopsis	Route distinguisher list name
Context	**configure** policy-options route-distinguisher-list *named-item-64*
Tree	route-distinguisher-list
Description	This command creates a list of entries used to match the RD in BGP routes of specific address families.
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character 'name' must not contain @ (use @param@ in policy expressions)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

rd-entry [rd] *string*

Synopsis	Add a list entry for **rd-entry**
Context	**configure** policy-options route-distinguisher-list *named-item-64* rd-entry *string*
Tree	rd-entry
Max. instances	128

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**rd**] *string*

Synopsis	Route distinguisher
Context	**configure** policy-options route-distinguisher-list *named-item-64* rd-entry *string*
Tree	rd-entry
Description	This command creates an RD matching entry containing an IPv4 address or ASN and the assigned number. The following formats are supported: • *a.b.c.d*/*m*:* – RD in IPv4 format with a wildcard character (such as 10.0.0.0/16:*) • *a.b.c.d*/*m*:*n* – RD in IPv4 format with a specific number (such as 10.0.0.2/32:535) • *asn*:* – RD in ASN format with a wildcard character (such as 65000:*) • *asn*:*n* – RD in ASN format with a specific number (such as 65000:535) See the "Route distinguishers" section of the *7705 SAR Gen 2 Layer 3 Services Guide: IES and VPRN* for information about Type values.
String length	3 to 28
String format	'rd' must be ip/mask:num, asn:num or 4byte-asn:num (e.g. 10.0.0.0/8:100 or 65535:0)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.19 port commands

```
configure
   – port port
      – access
         – apply-groups reference
         – apply-groups-exclude reference
         – egress
            – pool named-item
               – apply-groups reference
               – apply-groups-exclude reference
         – ingress
            – pool named-item
               – apply-groups reference
               – apply-groups-exclude reference
      – admin-state keyword
      – apply-groups reference
      – apply-groups-exclude reference
      – connector
         – apply-groups reference
         – apply-groups-exclude reference
         – breakout keyword
         – rs-fec-mode keyword
      – ddm-events boolean
      – description very-long-description
      – dist-cpu-protection
         – policy reference
      – dwdm
         – apply-groups reference
         – apply-groups-exclude reference
         – coherent
            – apply-groups reference
            – apply-groups-exclude reference
            – compatibility keyword
            – cpr-window-size number
            – dispersion number
            – mode keyword
            – report-alarm
               – hosttx boolean
               – mod boolean
               – modflt boolean
               – netrx boolean
               – nettx boolean
            – rx-los-reaction keyword
            – rx-los-thresh decimal-number
            – sweep
               – end number
               – start number
            – target-power decimal-number
         – frequency number
      – ethernet
         – access
            – apply-groups reference
            – apply-groups-exclude reference
            – bandwidth number
            – booking-factor number
            – egress
               – queue-group reference instance-id number
                  – accounting-policy reference
                  – apply-groups reference
                  – apply-groups-exclude reference
```


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```
                - collect-stats boolean
                - description description
                - queue-overrides
                   - queue reference
                      - adaptation-rule
                         - cir keyword
                         - pir keyword
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - cbs (number | keyword)
                      - drop-tail
                         - low
                            - percent-reduction-from-mbs (number | keyword)
                      - mbs (number | keyword)
                      - parent
                         - cir-weight number
                         - weight number
                      - percent-rate
                         - cir decimal-number
                         - pir decimal-number
                      - rate
                         - cir (number | keyword)
                         - pir (number | keyword)
                - scheduler-policy
                   - overrides
                      - scheduler named-item
                         - apply-groups reference
                         - apply-groups-exclude reference
                         - parent
                            - cir-weight number
                            - weight number
                         - rate
                            - cir (number | keyword)
                            - pir (number | keyword)
                   - policy-name reference
          - ingress
             - queue-group reference
                - accounting-policy reference
                - apply-groups reference
                - apply-groups-exclude reference
                - collect-stats boolean
                - description description
                - queue-overrides
                   - queue reference
                      - adaptation-rule
                         - cir keyword
                         - pir keyword
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - cbs (number | keyword)
                      - drop-tail
                         - low
                            - percent-reduction-from-mbs (number | keyword)
                      - mbs (number | keyword)
                      - rate
                         - cir (number | keyword)
                         - pir (number | keyword)
                - scheduler-policy
                   - overrides
                      - scheduler named-item
                         - apply-groups reference
                         - apply-groups-exclude reference
                         - parent
                            - cir-weight number
```


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configure port ethernet access ingress queue-group scheduler-policy overrides scheduler parent weight

```
                        - weight number
                     - rate
                        - cir (number | keyword)
                        - pir (number | keyword)
               - policy-name reference
      - accounting-policy reference
      - apply-groups reference
      - apply-groups-exclude reference
      - autonegotiate keyword
      - collect-stats boolean
      - crc-monitor
         - signal-degrade
            - multiplier number
            - threshold number
         - signal-failure
            - multiplier number
            - threshold number
         - window-size number
      - dampening
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - half-life number
         - max-suppress-time number
         - reuse-threshold number
         - suppress-threshold number
      - discard-rx-pause-frames boolean
      - dot1q-etype etype
      - dot1x
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - macsec
            - apply-groups reference
            - apply-groups-exclude reference
            - exclude-mac-policy reference
            - exclude-protocol
               - cdp boolean
               - eapol-start boolean
               - efm-oam boolean
               - eth-cfm boolean
               - lacp boolean
               - lldp boolean
               - ptp boolean
               - ubfd boolean
            - rx-must-be-encrypted boolean
            - sub-port number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - ca-name reference
               - eapol-destination-address mac-address
               - encap-match
                  - all-match boolean
                  - double-tag double-vlan-encap
                  - single-tag single-vlan-encap
                  - untagged boolean
               - max-peers number
         - max-authentication-requests number
         - per-host-authentication
            - admin-state keyword
            - allowed-source-macs
               - mac-address mac-address
            - authenticator-init boolean
```


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```
            - port-control keyword
            - quiet-period number
            - radius-policy reference
            - radius-server-policy reference
            - radius-server-policy-acct reference
            - radius-server-policy-auth reference
            - re-authentication
               - period number
            - server-timeout number
            - supplicant-timeout number
            - transmit-period number
            - tunnel-dot1q boolean
            - tunnel-qinq boolean
            - tunneling boolean
         - down-on-internal-error
            - tx-laser keyword
         - down-when-looped
            - admin-state keyword
            - keep-alive number
            - retry-timeout number
            - tunneling boolean
            - use-broadcast-address boolean
         - duplex keyword
         - efm-oam
            - accept-remote-loopback boolean
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - hold-time number
            - ignore-efm-state boolean
            - mode keyword
            - multiplier number
            - peer-rdi-rx
               - critical-event keyword
               - dying-gasp keyword
               - event-notification keyword
               - link-fault keyword
            - remote-loopback-forward-non-efm-frames boolean
            - transmit-interval number
            - trigger-fault keyword
            - tunneling boolean
         - egress
            - apply-groups reference
            - apply-groups-exclude reference
            - eth-bn-rate-changes boolean
            - port-scheduler-policy
               - overrides
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - level number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - rate
                        - cir (number | keyword)
                        - pir (number | keyword)
                  - max-rate
                     - rate (number | keyword)
               - policy-name reference
            - rate number
         - encap-type keyword
         - eth-cfm
            - mep md-admin-name reference ma-admin-name reference mep-id number
               - admin-state keyword
               - ais
```


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configure port ethernet eth-cfm mep ais client-meg-level

```
                - client-meg-level number
                - interface-support boolean
                - interval number
                - low-priority-defect keyword
                - priority number
             - alarm-notification
                - fng-alarm-time number
                - fng-reset-time number
             - apply-groups reference
             - apply-groups-exclude reference
             - ccm boolean
             - ccm-ltm-priority number
             - ccm-tlv-ignore keyword
             - description description
             - eth-bn
                - receive boolean
                - rx-update-pacing number
             - eth-test
                - bit-error-threshold number
                - test-pattern
                   - crc-tlv boolean
                   - pattern keyword
             - facility-fault boolean
             - low-priority-defect keyword
             - mac-address mac-unicast-address-no-zero
             - one-way-delay-threshold number
       - hold-time
          - down number
          - units keyword
          - up number
       - ingress
          - pre-classifier
             - policy-name reference
          - rate number
       - lacp-tunnel boolean
       - lldp
          - apply-groups reference
          - apply-groups-exclude reference
          - dest-mac keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - notification boolean
             - port-id-subtype keyword
             - receive boolean
             - transmit boolean
             - tunnel-nearest-bridge boolean
             - tunnel-nearest-customer boolean
             - tunnel-nearest-non-tpmr boolean
             - tx-mgmt-address keyword
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
             - tx-tlvs
                - port-desc boolean
                - sys-cap boolean
                - sys-desc boolean
                - sys-name boolean
       - load-balancing-algorithm keyword
       - mac-address mac-address
       - min-frame-length number
       - mode keyword
       - mtu number
       - network
          - accounting-policy reference
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - collect-stats boolean
            - egress
               - queue-group reference instance-id number
                  - accounting-policy reference
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - collect-stats boolean
                  - description description
                  - policer-control-policy reference
                  - queue-overrides
                     - queue reference
                        - adaptation-rule
                           - cir keyword
                           - pir keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - drop-tail
                           - low
                              - percent-reduction-from-mbs (number | keyword)
                        - mbs (number | keyword)
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - scheduler-policy
                     - policy-name reference
               - queue-policy reference
         - ptp-asymmetry number
         - ptp-timestamping
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - ipv4-address ipv4-address
            - ipv6-address ipv6-address
         - ptp-tunnel boolean
         - qinq-etype etype
         - report-alarm
            - alignment-marker-not-locked boolean
            - block-not-locked boolean
            - duplicate-lane boolean
            - frame-not-locked boolean
            - high-ber boolean
            - local boolean
            - remote boolean
            - signal-fail boolean
         - rs-fec-mode keyword
         - speed number
         - ssm
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - code-type keyword
            - esmc-tunnel boolean
            - tx-dus boolean
            - tx-extended-ql-tlv boolean
         - util-stats-interval number
         - xgig keyword
      - gnss
         - antenna-cable-delay number
```


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```
        - apply-groups reference
        - apply-groups-exclude reference
        - constellation
           - galileo boolean
           - glonass boolean
           - gps boolean
        - elevation-mask-angle number
        - signal-cnr-mask number
     - monitor-oper-group reference
     - network
        - apply-groups reference
        - apply-groups-exclude reference
        - egress
           - pool named-item
              - apply-groups reference
              - apply-groups-exclude reference
     - otu
        - apply-groups reference
        - apply-groups-exclude reference
        - async-mapping boolean
        - fec keyword
        - fine-granularity-ber
           - signal-degrade
              - clear
                 - multiplier number
                 - threshold number
              - raise
                 - multiplier number
                 - threshold number
           - signal-failure
              - clear
                 - multiplier number
                 - threshold number
              - raise
                 - multiplier number
                 - threshold number
        - otu2-lan-data-rate keyword
        - path-monitoring
           - trail-trace-identifier
              - expected
                 - auto-generated
                 - bytes string
                 - string string
              - mismatch-reaction keyword
              - transmit
                 - auto-generated
                 - bytes string
                 - string string
        - payload-structure-identifier
           - payload
              - expected keyword
              - mismatch-reaction keyword
              - transmit keyword
        - report-alarm
           - fec-fail boolean
           - fec-sd boolean
           - fec-sf boolean
           - fec-uncorr boolean
           - loc boolean
           - lof boolean
           - lom boolean
           - los boolean
           - odu-ais boolean
           - odu-bdi boolean
```


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```
            - odu-lck boolean
            - odu-oci boolean
            - odu-tim boolean
            - opu-plm boolean
            - otu-ais boolean
            - otu-bdi boolean
            - otu-ber-sd boolean
            - otu-ber-sf boolean
            - otu-biae boolean
            - otu-iae boolean
            - otu-tim boolean
         - sd-threshold number
         - section-monitoring
            - trail-trace-identifier
               - expected
                  - auto-generated
                  - bytes string
                  - string string
               - mismatch-reaction keyword
               - transmit
                  - auto-generated
                  - bytes string
                  - string string
         - sf-sd-method keyword
         - sf-threshold number
      - serial
         - apply-groups reference
         - apply-groups-exclude reference
         - rs232
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - channel-group number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description long-description
            - character-length number
            - control-lead
               - input
                  - dts-dsr keyword
                  - rts-dcd keyword
               - monitor
                  - dts-dsr keyword
                  - rts-dcd keyword
               - output
                  - cts-alb keyword
                  - dcd-rts keyword
                  - ri-rdl keyword
            - data-position keyword
            - hold-time
               - down number
               - up number
            - loopback keyword
            - mon-data-inactivity
               - clear number
               - raise number
            - parity keyword
            - report-alarm
               - ctrl-lead-mon boolean
               - hcm-oof boolean
               - hcm-rai boolean
               - mon-data-inact boolean
            - s-bit-signaling boolean
```


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```
            - socket number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description long-description
               - rx
                  - eop
                     - idle-timeout number
                     - length number
                     - special-char string
                  - squelch-delay number
                  - unsquelch-delay number
               - tx
                  - inter-session-delay number
            - speed number
            - stop-bits number
      - tdm
         - apply-groups reference
         - apply-groups-exclude reference
         - ds1 tdm-ds1-index
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - channel-group number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description long-description
               - encap-type keyword
               - idle-payload-fill
                  - all-ones
                  - pattern number
               - idle-signal-fill
                  - all-ones
                  - pattern number
               - loopback keyword
               - mode keyword
               - network
                  - accounting-policy reference
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - collect-stats boolean
                  - queue-policy reference
               - timeslot number
            - clock-source keyword
            - framing keyword
            - hold-time
               - down number
               - up number
            - loopback keyword
            - report-alarm
               - ais boolean
               - los boolean
               - oof boolean
               - rai boolean
            - signal-mode keyword
            - ssm
               - admin-state keyword
               - tx-dus boolean
         - e1 tdm-e1-index
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - channel-group number
```


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```
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description long-description
            - encap-type keyword
            - idle-payload-fill
               - all-ones
               - pattern number
            - idle-signal-fill
               - all-ones
               - pattern number
            - loopback keyword
            - mode keyword
            - network
               - accounting-policy reference
               - apply-groups reference
               - apply-groups-exclude reference
               - collect-stats boolean
               - queue-policy reference
            - timeslot number
         - clock-source keyword
         - framing keyword
         - hold-time
            - down number
            - up number
         - loopback keyword
         - report-alarm
            - ais boolean
            - los boolean
            - oof boolean
            - rai boolean
         - signal-mode keyword
         - ssm
            - admin-state keyword
            - ssm-bit number
            - tx-dus boolean
      - encoding keyword
      - length number
      - line-impedance number
      - tpif
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - channel-group number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description long-description
            - timeslot number
         - loopback keyword
         - report-alarm
            - los boolean
            - rai boolean
   - transceiver
      - apply-groups reference
      - apply-groups-exclude reference
      - digital-coherent-optics boolean
      - optical-line-system
         - egress-amplifier-gain decimal-number
```


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4.19.1 port command descriptions

port [port-id] *port*

Synopsis	Enter the **port** list instance
Context	**configure** port *port*
Tree	port
Description	Commands in this context configure ports, multilink bundles, and bundle protection groups (BPGs). Before a port can be configured, the chassis slot must be provisioned with a valid card type and the MDA must be provisioned with a valid MDA type.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**port-id**] *port*

Synopsis	Port ID
Context	**configure** port *port*
Tree	port
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

access

Synopsis	Enter the **access** context
Context	**configure** port *port* access
Tree	access
Description	Commands in this context configure egress and ingress pool policy commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** port *port* access egress

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Tree	egress
Description	Commands in this context specify the configuration of access egress buffer pools to determine how a CBS-reserved space is handled and the strategy for utilizing the shared buffer space.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** port *port* access egress pool *named-item*
Tree	pool
Description	Commands in this context configure pool policies for the pool instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Pool name for the access port
Context	**configure** port *port* access egress pool *named-item*
Tree	pool
String length	1 to 32
MD-CLI default	default
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** port *port* access ingress
Tree	ingress
Introduced	25.3.R2

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Platforms	SAR Gen 2

pool [name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** port *port* access ingress pool *named-item*
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Pool name for the access port
Context	**configure** port *port* access ingress pool *named-item*
Tree	pool
String length	1 to 32
MD-CLI default	default
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the port
Context	**configure** port *port* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

connector

Synopsis	Enter the **connector** context

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Context	**configure** port *port* connector
Tree	connector
Description	Commands in this context configure connector ports and modes.
Introduced	25.3.R2
Platforms	SAR Gen 2

breakout *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Port breakout of the transceiver used in the connector
Context	**configure** port *port* connector breakout *keyword*
Tree	breakout
Description	This command defines the port breakout of the transceiver used in the connector. Specifying the type triggers the creation of the ports that will be accessible under the connector. When a QSFP28 connector uses an SFP+ optical module with the QSFP28-to-SFP+/SFP28 adapter, set this command to **c1-10g**. This value indicates the presence of the adapter. For some connectors (for example, QSFPDD), there can be overlap in the breakout for different host interfaces. The same port breakout can be supported on an optical modules that uses a host interface of CAUI-4 as another optical module that uses 100GAUI-2. To distinguish from the CAUI-4 host interface, the "-aui2" suffix is used on some breakout options. This is only necessary where there is overlap. In other situations, SR OS sets the host interface correctly without requiring the distinction in the breakout option.
Options	c1-40g, c4-10g, c1-100g, c4-25g, c10-10g, c1-400g, c2-100g, c4-100g, c1-10g, c1-25g, c1-50g, c8-50g, c1-800g, c3-100g, c8-100g, c2-400g, c1-400g-flex, c2-400g-flex, c1-1g, c2-1g, c1-100g-aui2, c2-100g-aui2, c1-400g-aui4, c4-100g-aui1, c1-100g-aui1, c1-400g-aui4-flex, c8-10g
Introduced	25.3.R2
Platforms	SAR Gen 2

rs-fec-mode *keyword*

Synopsis	RS-FEC mode for the Ethernet connector
Context	**configure** port *port* connector rs-fec-mode *keyword*
Tree	rs-fec-mode

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Description	This command specifies the RS-FEC (Reed-Solomon Forward Error Correction) mode on the Ethernet connector. See "Forward Error Correction" in the *7705 SAR Gen 2 Interface Configuration Guide* for more information about FEC settings.
Options	cl91-514-528, cl91-514-544
Introduced	25.3.R2
Platforms	SAR Gen 2

ddm-events *boolean*

Synopsis	Enable Digital Diagnostic Monitoring (DDM) events
Context	**configure** port *port* ddm-events *boolean*
Tree	ddm-events
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description
Context	**configure** port *port* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection

Synopsis	Enter the **dist-cpu-protection** context
Context	**configure** port *port* dist-cpu-protection
Tree	dist-cpu-protection
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy *reference*

Synopsis	Distributed CPU protection policy name
Context	**configure** port *port* dist-cpu-protection policy *reference*
Tree	policy
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

dwdm

Synopsis	Enter the **dwdm** context
Context	**configure** port *port* dwdm
Tree	dwdm
Description	Commands in this context configure the Dense Wavelength Division Multiplexing (DWDM) parameters for the port.
Introduced	25.3.R2
Platforms	SAR Gen 2

coherent

Synopsis	Enter the **coherent** context
Context	**configure** port *port* dwdm coherent
Tree	coherent
Description	Commands in this context configure the coherent optical module.
Introduced	25.3.R2
Platforms	SAR Gen 2

compatibility *keyword*

Synopsis	Optical mode and rate of operation
Context	**configure** port *port* dwdm coherent compatibility *keyword*
Tree	compatibility
Options	long-haul, metro, access, interop, interop2, interop3, long-haul-non-differential, oif-400g-zr, open-zrp-ofec1, open-zrp-ofec2

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Default	long-haul
Introduced	25.3.R2
Platforms	SAR Gen 2

cpr-window-size *number*

Synopsis	Window size for the carrier phase recovery
Context	**configure** port *port* dwdm coherent cpr-window-size *number*
Tree	cpr-window-size
Description	This command configures the window size for the carrier phase recovery. When this command is changed, the link bounces because the receiver needs to be reconfigured.
Range	2 | 4 | 8 | 16 | 32 | 64
Units	symbols
Introduced	25.3.R2
Platforms	SAR Gen 2

dispersion *number*

Synopsis	Residual chromatic dispersion compensation
Context	**configure** port *port* dwdm coherent dispersion *number*
Tree	dispersion
Description	This command specifies the residual chromatic dispersion compensation when the coherent receiver is operating in manual dispersion control mode.
Range	-50000 to 50000
Units	picoseconds per nanometer
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Mode used to compensate for chromatic dispersion
Context	**configure** port *port* dwdm coherent mode *keyword*
Tree	mode
Options	automatic, manual

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Default	automatic
Introduced	25.3.R2
Platforms	SAR Gen 2

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* dwdm coherent report-alarm
Tree	report-alarm
Description	Commands in this context configure the alarms reported for the coherent module.
Introduced	25.3.R2
Platforms	SAR Gen 2

hosttx *boolean*

Synopsis	Report the host (electrical side) transmit alarm
Context	**configure** port *port* dwdm coherent report-alarm hosttx *boolean*
Tree	hosttx
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mod *boolean*

Synopsis	Report the module alarm
Context	**configure** port *port* dwdm coherent report-alarm mod *boolean*
Tree	mod
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

modflt *boolean*

Synopsis	Report the module fault alarm
Context	**configure** port *port* dwdm coherent report-alarm modflt *boolean*

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Tree	modflt
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

netrx *boolean*

Synopsis	Report the network (optical side) receive alarm
Context	**configure** port *port* dwdm coherent report-alarm netrx *boolean*
Tree	netrx
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

nettx *boolean*

Synopsis	Report the network (optical side) transmit alarm
Context	**configure** port *port* dwdm coherent report-alarm nettx *boolean*
Tree	nettx
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rx-los-reaction *keyword*

Synopsis	Reaction to an RX LOS
Context	**configure** port *port* dwdm coherent rx-los-reaction *keyword*
Tree	rx-los-reaction
Description	This command configures the reaction to an RX LOS. **Note:** If this command is disabled for some coherent DWDM transceivers, the transceiver only reports local fault alarms when an RX LOS condition occurs; however, the port returns to service faster after the LOS condition is cleared. For these transceivers, if this command is enabled, there is better visibility of individual alarms (for example, signal-fail, local fault, no-am-lock), but the port takes longer to service after the LOS condition is cleared.
Options	none, squelch

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Default	squelch
Introduced	25.3.R2
Platforms	SAR Gen 2

rx-los-thresh *decimal-number*

Synopsis	Average input power LOS threshold
Context	**configure** port *port* dwdm coherent rx-los-thresh *decimal-number*
Tree	rx-los-thresh
Range	-30 to -13
Units	decibel-milliwatts
Default	-23
Introduced	25.3.R2
Platforms	SAR Gen 2

sweep

Synopsis	Enter the **sweep** context
Context	**configure** port *port* dwdm coherent sweep
Tree	sweep
Description	Commands in this context allow users to configure the dispersion sweep **start** and **end** values for the automatic mode of coherent control. If the user knows the approximate or theoretical residual dispersion of the link, these commands can be used to limit the range of sweeping for the automatic control mode and therefore achieve a faster link up.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the dispersion compensation range
Context	**configure** port *port* dwdm coherent sweep end *number*
Tree	end
Range	-50000 to 50000
Units	picoseconds per nanometer
Default	2000

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Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the dispersion compensation range
Context	**configure** port *port* dwdm coherent sweep start *number*
Tree	start
Range	-50000 to 50000
Units	picoseconds per nanometer
Default	-25500
Introduced	25.3.R2
Platforms	SAR Gen 2

target-power *decimal-number*

Synopsis	Average output power target for the port
Context	**configure** port *port* dwdm coherent target-power *decimal-number*
Tree	target-power
Range	-20 to 3
Units	decibel-milliwatts
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

frequency *number*

Synopsis	Center frequency for tunable DWDM optical interface
Context	**configure** port *port* dwdm frequency *number*
Tree	frequency
Description	This command configures the center frequency to use for a tunable DWDM optical interface. This command can be used to specify any frequency in the C band. To set the DWDM frequency, the port must be a physical port and the provisioned MDA type must have DWDM tunable optics (for example, p1-100g-tun-b), or the MDA must support the option of tunable DWDM optic modules. This command replaces the **configure port dwdm channel** command.

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Range	184800000 to 196750000
Units	megahertz
Introduced	25.3.R2
Platforms	SAR Gen 2

ethernet

Synopsis	Enter the **ethernet** context
Context	**configure** port *port* ethernet
Tree	ethernet
Description	Commands in this context configure Ethernet port attributes. This context can only be used when configuring Fast Ethernet, Gigabit, or 10-Gb Ethernet LAN ports on an appropriate MDA.
Introduced	25.3.R2
Platforms	SAR Gen 2

access

Synopsis	Enter the **access** context
Context	**configure** port *port* ethernet access
Tree	access
Description	Commands in this context configure Ethernet access port commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	Administrative bandwidth assigned to Ethernet ports
Context	**configure** port *port* ethernet access bandwidth *number*
Tree	bandwidth
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

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booking-factor *number*

Synopsis	Booking factor applied to the Ethernet port
Context	**configure** port *port* ethernet access booking-factor *number*
Tree	booking-factor
Range	1 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** port *port* ethernet access egress
Tree	egress
Description	Commands in this context configure Ethernet access egress port commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [queue-group-name] *reference* instance-id *number*

Synopsis	Enter the **queue-group** list instance
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number*
Tree	queue-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-group-name**] *reference*

Synopsis	Queue group name
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number*
Tree	queue-group
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance-id *number*

Synopsis	Instance ID for the egress queue group
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number*
Tree	queue-group
Range	1 to 65535
MD-CLI default	1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy for the Ethernet port
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-overrides

Synopsis	Enter the **queue-overrides** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides
Tree	queue-overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Queue ID
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates egress queue-group *named-item* queue *number*

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS for the template queue

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Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* drop-tail
Tree	drop-tail
Description	Commands in this context configure queue drop tail commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* drop-tail low
Tree	low
Description	Commands in this context configure the queue low drop tail commands. The low drop tail defines the queue depth beyond which the out-of-profile packets are not accepted into the queue and discarded.
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*

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Tree	percent-reduction-from-mbs
Description	This command overrides the low queue drop tail as a percentage reduction from the MBS of the queue. For example, if a queue has an MBS of 600 kbytes and this percentage is configured to be 30% for the low drop tail, the low drop tail is set to 420 kbytes and the out-of-profile packets are not accepted into the queue if its depth is greater than this value, and is therefore discarded.
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS for the template queue
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* parent
Tree	parent
Description	Commands in this context define the weight of the queue treatment by the parent scheduler that further governs the available bandwidth given to the queue, aside from the queue PIR setting. When multiple schedulers or queues share a child status with the parent scheduler, the weight or level commands define how the queue contends with the other children for the parent bandwidth.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir-weight *number*

Synopsis	CIR that overrides the parent for the queue group
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR that overrides the parent for the queue group
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* percent-rate
Tree	percent-rate
Description	Commands in this context specify percent rates. These commands are ignored for egress HSQ queue group queues, which are attached to an HS WRR group within an associated HS attachment policy. In this case, the configuration of the percent rate is performed under the **hs-wrr-group** command within the egress queue group template.
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *decimal-number*

Synopsis	CIR for the queue
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR for the queue
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the queue

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Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Description	This command specifies the administrative CIR used by the queue. When the **rate** command is executed, a CIR setting is optional. Fractional values are not allowed and must be given as a positive integer. The CIR defines the rate at which the system prioritizes the queue over other queues competing for the same bandwidth. In-profile then out-of-profile packets are preferentially queued by the system at egress and at subsequent next hop nodes where the packet can traverse. To be properly handled throughout the network, the packets must be marked accordingly for profiling at each hop. The CIR can be used by the queue's parent **cir-level** and **cir-weight** commands to define the amount of bandwidth considered to be committed for the child queue during bandwidth allocation by the parent scheduler.
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the queue
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* queue-overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Description	This command specifies the administrative PIR used by the queue. When the **rate** command is executed, a valid PIR setting must be explicitly defined. Fractional values are not allowed and must be given as a positive integer. The actual PIR rate is dependent on the queue's **adaptation-rule** commands and the actual hardware where the queue is provisioned. The PIR defines the maximum rate that the queue can transmit packets out an egress interface (for SAP egress queues). Defining a PIR does not necessarily guarantee that the queue can transmit at the intended rate. The actual rate sustained by the queue can be limited by oversubscription factors or available egress bandwidth.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy
Tree	scheduler-policy
Description	Commands in this context configure a scheduler policy for the egress queue group.
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	Commands in this context are used to override specific attributes of the specified scheduler name. A scheduler defines bandwidth controls that limit each child (other schedulers and queues) associated with the scheduler. Scheduler objects are created within the hierarchical tiers of the policy. It is assumed that each scheduler created has queues or other schedulers defined as child associations. The scheduler can be a child which takes bandwidth from a scheduler in a higher tier. A total of 32 schedulers can be created within a single scheduler policy with no restriction on the distribution between the tiers. The scheduler name must exist in the applied scheduler policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name. Valid names consist of any string composed of printable, 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Description	Commands in this context are used to override the scheduler's parent weight and CIR weight. The weights apply to the associated level or CIR level configured in the applied scheduler policy. The override weights are ignored if the scheduler does not have a parent command configured in the scheduler policy. This allows the parent of the scheduler to be removed from the scheduler policy without having to remove all of the queue group overrides. If the parent scheduler does not exist, causing the configured scheduler to be fostered on an egress port scheduler, then the override weights are ignored.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR that overrides the parent
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight

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Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR that overrides the parent
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Description	Commands in this context override specific attributes of the specified scheduler rate. The actual operating rate of the scheduler is limited by bandwidth constraints other than its maximum rate. The scheduler's parent scheduler may not have the available bandwidth to meet the scheduler's needs. The bandwidth available to the parent scheduler could be allocated to other child schedulers or the child queues on the parent scheduler may be based on a higher priority. The children of the scheduler may not need the maximum rate available to the scheduler due to an insufficient offered load or limits to their own maximum rates.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the scheduler
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Description	This command specifies the CIR. When a parent is associated with the scheduler, this command provides the amount of bandwidth to be considered during the parent

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scheduler's within-cir distribution phase. When the **rate** command is executed, a valid PIR setting must be explicitly defined before specifying the CIR. If the CIR is set to **max**, the CIR rate is set to infinity.

The **sum** keyword specifies that the CIR be used as the summed CIR values of the children schedulers, policers, or queues.

Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the scheduler
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Description	This command specifies the PIR. When the **rate** command is executed, a valid PIR setting must be explicitly defined. Any other value results in an error without modifying the current PIR rate.
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** port *port* ethernet access egress queue-group *reference* instance-id *number* scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ingress

Synopsis	Enter the **ingress** context
Context	**configure** port *port* ethernet access ingress
Tree	ingress
Description	Commands in this context configure Ethernet access ingress port commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [queue-group-name] *reference*

Synopsis	Enter the **queue-group** list instance
Context	**configure** port *port* ethernet access ingress queue-group *reference*
Tree	queue-group
Description	Commands in this context create an ingress queue group on the Ethernet port. Queue groups created on access ports are used as an alternative queue destination for SAPs. Queue groups can be created on both access and network oriented ports. When the port is in access mode, the queue groups must be created within the port access node. Access ingress queue groups can only be used by ingress SAP forwarding classes and only a single ingress queue group per port is supported. When the queue group is created in an ingress port context, the queue group name must be an existing ingress queue group template. Two ingress queue groups with the same name cannot be created on the same port. When creating a queue group, the system will attempt to allocate queue resources based on the queues defined in the queue group template. If the appropriate queue resources do not currently exist, the queue group will not be created. Ingress port queue groups do not support shared-queuing or multipoint shared queuing behavior. A port queue group cannot be removed from the port when a forwarding class is currently redirected to the group. All forwarding class redirections must first be removed prior to removing the queue group.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-group-name**] *reference*

Synopsis	Queue group name
Context	**configure** port *port* ethernet access ingress queue-group *reference*
Tree	queue-group

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Description	This command specifies the queue group name. The specified queue group name must exist as an ingress or egress queue group template depending on the ingress or egress context of the port queue group. Only a single queue group may be created on an ingress port.
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy for the Ethernet port
Context	**configure** port *port* ethernet access ingress queue-group *reference* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* ethernet access ingress queue-group *reference* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** port *port* ethernet access ingress queue-group *reference* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-overrides

Synopsis	Enter the **queue-overrides** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides
Tree	queue-overrides
Description	Commands in this context define queue command overrides for each queue within the queue group.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference*
Tree	queue
Description	Commands in this context associate a queue for use in a queue group template. The template queue is created on each queue group object that is created with the queue group template name. Each queue is identified within the template by a queue ID number. The template ensures that all queue groups created with the template's name have the same queue IDs, providing a uniform structure for the forwarding class redirection commands in the SAP egress QoS policies. The queue commands can be individually changed for each queue in each queue group using per queue overrides.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Queue ID for the queue group template
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS for the template queue

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Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* drop-tail low
Tree	low
Description	Commands in this context configure the queue low drop tail commands. The low drop tail defines the queue depth beyond which out-of-profile packets are accepted into the queue and discarded.
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs

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Description	This command overrides the low queue drop tail as a percentage reduction from the MBS of the queue. For example, if a queue has an MBS of 600 kbytes and this percentage is configured to be 30% for the low drop tail, the low drop tail is set to 420 kbytes and the out-of-profile packets are not accepted into the queue if its depth is greater than this value, and is therefore discarded.
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS for the template queue
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the queue
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* rate cir *(number | keyword)*
Tree	cir

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Description	This command specifies the administrative CIR used by the queue. When the **rate** command is executed, a CIR setting is optional. Fractional values are not allowed and must be given as a positive integer. The CIR defines the rate at which the system prioritizes the queue over other queues competing for the same bandwidth. In-profile then out-of-profile packets are preferentially queued by the system at egress and at subsequent next hop nodes where the packet can traverse. To be properly handled throughout the network, the packets must be marked accordingly for profiling at each hop. The CIR can be used by the queue's parent **cir-level** and **cir-weight** commands to define the amount of bandwidth considered to be committed for the child queue during bandwidth allocation by the parent scheduler.
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the queue
Context	**configure** port *port* ethernet access ingress queue-group *reference* queue-overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Description	This command specifies the administrative PIR used by the queue. When the **rate** command is executed, a valid PIR setting must be explicitly defined. Fractional values are not allowed and must be given as a positive integer. The actual PIR rate is dependent on the queue's **adaptation-rule** commands and the actual hardware where the queue is provisioned. The PIR defines the maximum rate that the queue can transmit packets out an egress interface (for SAP egress queues). Defining a PIR does not necessarily guarantee that the queue can transmit at the intended rate. The actual rate sustained by the queue can be limited by oversubscription factors or available egress bandwidth.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy
Tree	scheduler-policy
Description	Commands in this context configure a scheduler policy for the ingress queue group.
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides
Tree	overrides
Description	Commands in this context specify the set of attributes specifying values specific to the given queue-group instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	Commands in this context are used to override specific attributes of the specified scheduler name. A scheduler defines bandwidth controls that limit each child (other schedulers and queues) associated with the scheduler. Scheduler objects are created within the hierarchical tiers of the policy. It is assumed that each scheduler created has queues or other schedulers defined as child associations. The scheduler can be a child which takes bandwidth from a scheduler in a higher tier. A total of 32 schedulers can be created within a single scheduler policy with no restriction on the distribution between the tiers. The scheduler name must exist in the applied scheduler policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name. Valid names consist of any string composed of printable, 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Description	Commands in this context are used to override the scheduler's parent weight and CIR weight. The weights apply to the associated level or CIR level configured in the applied scheduler policy. The override weights are ignored if the scheduler does not have a parent command configured in the scheduler policy. This allows the parent of the scheduler to be removed from the scheduler policy without having to remove all of the queue group overrides. If the parent scheduler does not exist, causing the configured scheduler to be fostered on an egress port scheduler, then the override weights are ignored.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR that overrides the parent
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight

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Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR that overrides the parent
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Description	Commands in this context override specific attributes of the specified scheduler rate. The actual operating rate of the scheduler is limited by bandwidth constraints other than its maximum rate. The scheduler's parent scheduler may not have the available bandwidth to meet the scheduler's needs. The bandwidth available to the parent scheduler could be allocated to other child schedulers or the child queues on the parent scheduler may be based on a higher priority. The children of the scheduler may not need the maximum rate available to the scheduler due to an insufficient offered load or limits to their own maximum rates.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the scheduler
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Description	This command specifies the CIR. When a parent is associated with the scheduler, this command provides the amount of bandwidth to be considered during the parent

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scheduler's within-cir distribution phase. When the **rate** command is executed, a valid PIR setting must be explicitly defined before specifying the CIR. If the CIR is set to **max**, the CIR rate is set to infinity.

The **sum** keyword specifies that the CIR be used as the summed CIR values of the children schedulers, policers, or queues.

Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the scheduler
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Description	This command specifies the PIR. When the **rate** command is executed, a valid PIR setting must be explicitly defined. Any other value results in an error without modifying the current PIR rate.
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** port *port* ethernet access ingress queue-group *reference* scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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accounting-policy *reference*

Synopsis	Accounting policy for the Ethernet port
Context	**configure** port *port* ethernet accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

autonegotiate *keyword*

Synopsis	Speed and duplex autonegotiation on the Ethernet port
Context	**configure** port *port* ethernet autonegotiate *keyword*
Tree	autonegotiate
Description	This command enables speed and duplex autonegotiation on Fast Ethernet ports and enables far-end fault indicator support on Gb ports. When autonegotiation is enabled on a port, the link attempts to automatically negotiate the link **speed** and **duplex** commands. If autonegotiation is enabled, the configured **duplex** and **speed** commands are ignored. When autonegotiation is disabled on a port, the port does not attempt to autonegotiate and will only operate at the **speed** and **duplex** command settings configured for the port. Note that disabling autonegotiation on Gb ports is not allowed as the IEEE 802.3 specification for Gb Ethernet requires autonegotiation be enabled for far end fault indication. It is required for autonegotiation to be limited for ports in a LAG to guarantee a specific port speed.
Options	true, false, limited
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* ethernet collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

crc-monitor

Synopsis	Enter the **crc-monitor** context
Context	**configure** port *port* ethernet crc-monitor
Tree	crc-monitor
Description	Commands in this context configure Ethernet Cyclic Redundancy Check (CRC) monitoring.
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-degrade

Synopsis	Enter the **signal-degrade** context
Context	**configure** port *port* ethernet crc-monitor signal-degrade
Tree	signal-degrade
Description	Commands in this context specify the error rate at which to declare the Signal Degrade (SD) condition on an Ethernet interface. The value represents M*10E-N, which is the ratio of errored frames over the total frames received over W seconds of the sliding window. The CRC errors on the interface are sampled once per second.
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	SD multiplier
Context	**configure** port *port* ethernet crc-monitor signal-degrade multiplier *number*
Tree	multiplier
Range	1 to 9
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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threshold *number*

Synopsis	SD threshold
Context	**configure** port *port* ethernet crc-monitor signal-degrade threshold *number*
Tree	threshold
Range	1 to 9
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-failure

Synopsis	Enter the **signal-failure** context
Context	**configure** port *port* ethernet crc-monitor signal-failure
Tree	signal-failure
Description	Commands in this context specify the error rate at which to declare the Signal Fail (SF) condition on an Ethernet interface. The value represents M*10E-N errored frames over total frames received over W seconds of the sliding window. The CRC errors on the interface are sampled once per second.
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	SF multiplier
Context	**configure** port *port* ethernet crc-monitor signal-failure multiplier *number*
Tree	multiplier
Range	1 to 9
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	SF threshold
Context	**configure** port *port* ethernet crc-monitor signal-failure threshold *number*
Tree	threshold

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Range	1 to 9
Introduced	25.3.R2
Platforms	SAR Gen 2

window-size *number*

Synopsis	Sliding window size over which errors are measured
Context	**configure** port *port* ethernet crc-monitor window-size *number*
Tree	window-size
Description	This command specifies the sliding window size over which the Ethernet frames are sampled to detect SF or SD conditions. The command is used jointly with the **signal-failure** and the **signal-degrade** commands to configure the sliding window size.
Range	5 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

dampening

Synopsis	Enter the **dampening** context
Context	**configure** port *port* ethernet dampening
Tree	dampening
Description	Commands in this context configure Exponential Port Dampening (EPD) for the Ethernet port.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of exponential port dampening
Context	**configure** port *port* ethernet dampening admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

half-life *number*

Synopsis	Half-life decay time
Context	**configure** port *port* ethernet dampening half-life *number*
Tree	half-life
Description	This command specifies the time that must pass before penalties decay to one-half the initial amount. The half-life and maximum suppression time values must be set at the same time and the ratio of the maximum suppression time and half-life must be less than or equal to 49 and greater than or equal to one.
Range	1 to 2000
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

max-suppress-time *number*

Synopsis	Maximum suppression time
Context	**configure** port *port* ethernet dampening max-suppress-time *number*
Tree	max-suppress-time
Description	This command specifies the maximum suppression time, which is the time it can take after the physical link comes up before the worst case accumulated penalties have decayed to the reuse threshold. The maximum penalty is derived from the maximum suppression time, half life, and reuse threshold, using the following equation: maximum penalty = (reuse threshold) 2 expo:(maximum suppression time/half life) The half life and maximum suppression time values must be set at the same time and the ratio of the maximum suppression time and half life must be less than or equal to 49 and greater than or equal to one.
Range	1 to 43200
Units	seconds
Default	20
Introduced	25.3.R2
Platforms	SAR Gen 2

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reuse-threshold *number*

Synopsis	Threshold which port-up state is no longer suppressed
Context	**configure** port *port* ethernet dampening reuse-threshold *number*
Tree	reuse-threshold
Description	This command specifies the threshold at which the port-up state is no longer suppressed, after the port has been in a suppressed state and the accumulated penalties decay drops below this threshold. The reuse threshold value must be less than the suppress threshold value.
Range	1 to 20000
Units	penalties
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-threshold *number*

Synopsis	Threshold at which the port-up state is suppressed
Context	**configure** port *port* ethernet dampening suppress-threshold *number*
Tree	suppress-threshold
Description	This command specifies the threshold at which the port-up state is suppressed until the accumulated penalties drop below the reuse threshold. The reuse threshold value must be less than the suppress threshold value.
Range	1 to 20000
Units	penalties
Default	2000
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-rx-pause-frames *boolean*

Synopsis	Discard received pause frames
Context	**configure** port *port* ethernet discard-rx-pause-frames *boolean*
Tree	discard-rx-pause-frames
Description	When configured to **true**, the router discards the received pause frames, which are used for local link flow control.

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When configured to **false**, pause frames are processed upon receipt, and the transmit side of the receiving port pauses its transmissions.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

dot1q-etype *etype*

Synopsis Ethertype expected if port encapsulation type is dot1q

Context **configure** port *port* ethernet dot1q-etype *etype*

Tree dot1q-etype

Description This command specifies the Ethertype expected when the port encapsulation type is dot1q. Dot1q encapsulation is supported only on Ethernet interfaces.

Default 33024

Introduced 25.3.R2

Platforms SAR Gen 2

dot1x

Synopsis Enter the **dot1x** context

Context **configure** port *port* ethernet dot1x

Tree dot1x

Description Commands in this context configure port-specific 802.1x authentication attributes. 802.1x authentication is supported only when configuring Fast Ethernet, Gigabit, or 10-Gb Ethernet LAN ports on an appropriate MDA.

Introduced 25.3.R2

Platforms SAR Gen 2

admin-state *keyword*

Synopsis Administrative state of dot1x packet extraction to CPM

Context **configure** port *port* ethernet dot1x admin-state *keyword*

Tree admin-state

Options enable, disable

Default enable

Introduced 25.3.R2

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Platforms	SAR Gen 2

macsec

Synopsis	Enter the **macsec** context
Context	**configure** port *port* ethernet dot1x macsec
Tree	macsec
Description	Commands in this context configure Media Access Control Security (MACsec) under the port.
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-mac-policy *reference*

Synopsis	MAC policy excluded from MACsec encryption
Context	**configure** port *port* ethernet dot1x macsec exclude-mac-policy *reference*
Tree	exclude-mac-policy
Reference	**configure** macsec mac-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-protocol

Synopsis	Enter the **exclude-protocol** context
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol
Tree	exclude-protocol
Introduced	25.3.R2
Platforms	SAR Gen 2

cdp *boolean*

Synopsis	Disable MACsec for all packets on the link for CDP
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol cdp *boolean*
Tree	cdp
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

eapol-start *boolean*

Synopsis	Disable MACsec for all packets on the link for EAPOL
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol eapol-start *boolean*
Tree	eapol-start
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

efm-oam *boolean*

Synopsis	Disable MACsec for all packets on the link for EFM-OAM
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol efm-oam *boolean*
Tree	efm-oam
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm *boolean*

Synopsis	Disable MACsec for all packets on the link for ETH-CFM
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol eth-cfm *boolean*
Tree	eth-cfm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp *boolean*

Synopsis	Disable MACsec for all packets on the link for LACP
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol lacp *boolean*
Tree	lacp

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lldp *boolean*

Synopsis	Disable MACsec for all packets on the link for LLDP
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol lldp *boolean*
Tree	lldp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp *boolean*

Synopsis	Disable MACsec for all packets on the link for PTP
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol ptp *boolean*
Tree	ptp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ubfd *boolean*

Synopsis	Disable MACsec for all packets on the link for uBFD
Context	**configure** port *port* ethernet dot1x macsec exclude-protocol ubfd *boolean*
Tree	ubfd
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rx-must-be-encrypted *boolean*

Synopsis	Drop all port traffic that is not MACsec-secured
Context	**configure** port *port* ethernet dot1x macsec rx-must-be-encrypted *boolean*

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Tree	rx-must-be-encrypted
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sub-port [sub-port-id] *number*

Synopsis	Enter the **sub-port** list instance
Context	**configure** port *port* ethernet dot1x macsec sub-port *number*
Tree	sub-port
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sub-port-id**] *number*

Synopsis	Sub-port ID
Context	**configure** port *port* ethernet dot1x macsec sub-port *number*
Tree	sub-port
Range	1 to 1023
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of MACsec on the port
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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ca-name *reference*

Synopsis	Connectivity association linked to the MACsec sub-port
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* ca-name *reference*
Tree	ca-name
Reference	**configure** macsec connectivity-association *string*
Introduced	25.3.R2
Platforms	SAR Gen 2

eapol-destination-address *mac-address*

Synopsis	EAPOL destination MAC address
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* eapol-destination-address *mac-address*
Tree	eapol-destination-address
Introduced	25.3.R2
Platforms	SAR Gen 2

encap-match

Synopsis	Enter the **encap-match** context
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* encap-match
Tree	encap-match
Introduced	25.3.R2
Platforms	SAR Gen 2

all-match *boolean*

Synopsis	Match and encrypt all traffic patterns
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* encap-match all-match *boolean*
Tree	all-match
Default	true
Notes	The following elements are part of a choice: **all-match**, **double-tag**, **single-tag**, or **untagged**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

double-tag *double-vlan-encap*

Synopsis	QinQ double tag traffic pattern to match
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* encap-match double-tag *double-vlan-encap*
Tree	double-tag
String length	1 to 11
String format	'double-vlan-encap' must be inner.outer Q-tag or * form
Notes	The following elements are part of a choice: **all-match**, **double-tag**, **single-tag**, or **untagged**.
Introduced	25.3.R2
Platforms	SAR Gen 2

single-tag *single-vlan-encap*

Synopsis	Dot1q single tag traffic pattern to match
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* encap-match single-tag *single-vlan-encap*
Tree	single-tag
String length	1 to 11
String format	'single-vlan-encap' must be Q-tag or *
Notes	The following elements are part of a choice: **all-match**, **double-tag**, **single-tag**, or **untagged**.
Introduced	25.3.R2
Platforms	SAR Gen 2

untagged *boolean*

Synopsis	Match and encrypt untagged traffic only
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* encap-match untagged *boolean*
Tree	untagged
Notes	The following elements are part of a choice: **all-match**, **double-tag**, **single-tag**, or **untagged**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

max-peers *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of peers supported on the port
Context	**configure** port *port* ethernet dot1x macsec sub-port *number* max-peers *number*
Tree	max-peers
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

max-authentication-requests *number*

Synopsis	Maximum number of RADIUS retries
Context	**configure** port *port* ethernet dot1x max-authentication-requests *number*
Tree	max-authentication-requests
Range	1 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

per-host-authentication

Synopsis	Enter the **per-host-authentication** context
Context	**configure** port *port* ethernet dot1x per-host-authentication
Tree	per-host-authentication
Description	Commands in this context configure per-host authentication on the port or VLAN scope. When dot1x authentication is configured, the router authenticates each host based on the source MAC or VLAN. When a host is authenticated via RADIUS policy, its source MAC is allowed through the port, while the port is closed for any other MAC. Any traffic from the allowed host is forwarded on the port, including untagged, and tagged packets.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of per-host authentication
Context	**configure** port *port* ethernet dot1x per-host-authentication admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allowed-source-macs

Synopsis	Enter the **allowed-source-macs** context
Context	**configure** port *port* ethernet dot1x per-host-authentication allowed-source-macs
Tree	allowed-source-macs
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address [mac] *mac-address*

Synopsis	Add a list entry for **mac-address**
Context	**configure** port *port* ethernet dot1x per-host-authentication allowed-source-macs mac-address *mac-address*
Tree	mac-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac**] *mac-address*

Synopsis	Source MAC address of a host selected for authentication
Context	**configure** port *port* ethernet dot1x per-host-authentication allowed-source-macs mac-address *mac-address*
Tree	mac-address
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

authenticator-init *boolean*

Synopsis	Initiate per-host authentication
Context	**configure** port *port* ethernet dot1x per-host-authentication authenticator-init *boolean*
Tree	authenticator-init
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

port-control *keyword*

Synopsis	802.1x authentication mode
Context	**configure** port *port* ethernet dot1x port-control *keyword*
Tree	port-control
Options	force-unauthorized, auto, force-authorized
Default	force-authorized
Introduced	25.3.R2
Platforms	SAR Gen 2

quiet-period *number*

Synopsis	Time between two sessions when no EAPOL frames are sent
Context	**configure** port *port* ethernet dot1x quiet-period *number*
Tree	quiet-period
Range	1 to 3600
Units	seconds
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-policy *reference*

Synopsis	RADIUS policy used for 802.1x authentication

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Context	**configure** port *port* ethernet dot1x radius-policy *reference*
Tree	radius-policy
Reference	**configure** system security dot1x radius-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-server-policy *reference*

Synopsis	RADIUS server policy name
Context	**configure** port *port* ethernet dot1x radius-server-policy *reference*
Tree	radius-server-policy
Reference	**configure** aaa radius server-policy *named-item*
Notes	The following elements are part of a choice: **radius-server-policy** or (**radius-server-policy-acct** and **radius-server-policy-auth**).
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-server-policy-acct *reference*

Synopsis	RADIUS server policy name for accounting
Context	**configure** port *port* ethernet dot1x radius-server-policy-acct *reference*
Tree	radius-server-policy-acct
Reference	**configure** aaa radius server-policy *named-item*
Notes	The following elements are part of a choice: **radius-server-policy** or (**radius-server-policy-acct** and **radius-server-policy-auth**).
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-server-policy-auth *reference*

Synopsis	RADIUS server policy name for authentication
Context	**configure** port *port* ethernet dot1x radius-server-policy-auth *reference*
Tree	radius-server-policy-auth
Reference	**configure** aaa radius server-policy *named-item*

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Notes	The following elements are part of a choice: **radius-server-policy** or (**radius-server-policy-acct** and **radius-server-policy-auth**).
Introduced	25.3.R2
Platforms	SAR Gen 2

re-authentication

Synopsis	Enable the **re-authentication** context
Context	**configure** port *port* ethernet dot1x re-authentication
Tree	re-authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

period *number*

Synopsis	Delay before re-authentication is performed
Context	**configure** port *port* ethernet dot1x re-authentication period *number*
Tree	period
Range	1 to 9000
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

server-timeout *number*

Synopsis	Wait time for a response from the RADIUS server
Context	**configure** port *port* ethernet dot1x server-timeout *number*
Tree	server-timeout
Range	1 to 300
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

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supplicant-timeout *number*

Synopsis	Wait time for a response to EAPOL messages
Context	**configure** port *port* ethernet dot1x supplicant-timeout *number*
Tree	supplicant-timeout
Range	1 to 300
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-period *number*

Synopsis	Time after which a new EAPOL request message is sent
Context	**configure** port *port* ethernet dot1x transmit-period *number*
Tree	transmit-period
Range	1 to 3600
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-dot1q *boolean*

Synopsis	Enable dot1x tunneling for 802.1q tagged packets
Context	**configure** port *port* ethernet dot1x tunnel-dot1q *boolean*
Tree	tunnel-dot1q
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-qinq *boolean*

Synopsis	Enable dot1x tunneling for QinQ tagged packets
Context	**configure** port *port* ethernet dot1x tunnel-qinq *boolean*

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Tree	tunnel-qinq
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tunneling *boolean*

Synopsis	Allow tunneling of untagged 802.1x frames
Context	**configure** port *port* ethernet dot1x tunneling *boolean*
Tree	tunneling
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

down-on-internal-error

Synopsis	Enable the **down-on-internal-error** context
Context	**configure** port *port* ethernet down-on-internal-error
Tree	down-on-internal-error
Introduced	25.3.R2
Platforms	SAR Gen 2

tx-laser *keyword*

Synopsis	Remote laser state on internal MAC transmit error
Context	**configure** port *port* ethernet down-on-internal-error tx-laser *keyword*
Tree	tx-laser
Options	off, on
Default	on
Introduced	25.3.R2
Platforms	SAR Gen 2

down-when-looped

Synopsis	Enter the **down-when-looped** context

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Context	**configure** port *port* ethernet down-when-looped
Tree	down-when-looped
Description	Commands in this context configure Ethernet loop detection.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Ethernet loop detection
Context	**configure** port *port* ethernet down-when-looped admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

keep-alive *number*

Synopsis	Time interval between keepalive PDUs
Context	**configure** port *port* ethernet down-when-looped keep-alive *number*
Tree	keep-alive
Description	This command configures the time interval between the keepalive PDUs transmitted toward the network during Ethernet loop detection.
Range	1 to 120
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timeout *number*

Synopsis	Wait time before re-enabling port after loop detection
Context	**configure** port *port* ethernet down-when-looped retry-timeout *number*
Tree	retry-timeout

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Description	This command configures the minimum wait time before re-enabling the Ethernet port after it is brought down because of a loop detection.
Range	0 | 10 to 160
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

tunneling *boolean*

Synopsis	Enable down-when-looped tunneling
Context	**configure** port *port* ethernet down-when-looped tunneling *boolean*
Tree	tunneling
Default	true
Introduced	26.7.R1
Platforms	SAR Gen 2

use-broadcast-address *boolean*

Synopsis	Use broadcast MAC address for destination MAC address
Context	**configure** port *port* ethernet down-when-looped use-broadcast-address *boolean*
Tree	use-broadcast-address
Description	When configured to **true**, the router declares a loop when the destination MAC address matches the broadcast MAC address. When configured to **false**, the router declares a loop when the destination MAC address matches the MAC address of the Ethernet port.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

duplex *keyword*

Synopsis	Duplex type for the fast Ethernet port
Context	**configure** port *port* ethernet duplex *keyword*
Tree	duplex

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Description	This command configures the duplex of a Fast Ethernet port when autonegotiation is disabled. This command setting is ignored if autonegotiation is enabled for the port.
Options	full, half
Introduced	25.3.R2
Platforms	SAR Gen 2

efm-oam

Synopsis	Enter the **efm-oam** context
Context	**configure** port *port* ethernet efm-oam
Tree	efm-oam
Description	Commands in this context configure EFM-OAM attributes.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-remote-loopback *boolean*

Synopsis	Enable reactions to loopback control OAMPDUs from peers
Context	**configure** port *port* ethernet efm-oam accept-remote-loopback *boolean*
Tree	accept-remote-loopback
Description	When configured to **true**, the router enables reactions to loopback control OAM PDUs from peers.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the EFM OAM operation
Context	**configure** port *port* ethernet efm-oam admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

hold-time *number*

Synopsis	Wait time before protocol returns to operational state
Context	**configure** port *port* ethernet efm-oam hold-time *number*
Tree	hold-time
Description	This command specifies the time the EFM-OAM protocol waits before going back to the operational state after leaving the operational state. The hold time does not apply if the EFM-OAM protocol moved from the operational state to link fault. A hold-time value of zero indicates that there is no delay in transitioning to the operational state. A non-zero value causes the EFM-OAM protocol to attempt to negotiate with a peer if possible, but it remains in the send-local-remote-ok state until the hold time has expired if negotiation is successful. If the EFM-OAM protocol is administratively disabled while it is in the operational state and then re-enabled when a non-zero hold time is configured, EFM-OAM attempts transition to the operational state immediately.
Range	1 to 50
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-efm-state *boolean*

Synopsis	Suppress port state changes for EFM-OAM faults
Context	**configure** port *port* ethernet efm-oam ignore-efm-state *boolean*
Tree	ignore-efm-state
Description	When configured to **true**, the ETH-OAM protocol does not impact the state of the port when there is a failure in the protocol state machine (discovery, configuration, timeout, loops, and so on). There is only a protocol warning message on the port. When configured to **false**, the port state is affected by any existing EFM-OAM protocol fault condition.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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mode *keyword*

Synopsis	Mode of OAM operation for the Ethernet port
Context	**configure** port *port* ethernet efm-oam mode *keyword*
Tree	mode
Description	This command configures the mode of OAM operation for the Ethernet port. These two modes differ in that active mode causes the port to continually send out EFM-OAM information PDUs while passive mode waits for the peer to initiate the negotiation process. A passive mode port cannot initiate monitoring activities (such as loopback) with the peer.
Options	passive – Rely on peer to begin negotiation and monitoring active – Provide capability to begin negotiation and monitoring
Default	active
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Multiplier for the transmit interval of OAMPDUs
Context	**configure** port *port* ethernet efm-oam multiplier *number*
Tree	multiplier
Description	This command configures the multiplier for the transmit interval to set the local link down timer.
Range	2 to 5
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-rdi-rx

Synopsis	Enter the **peer-rdi-rx** context
Context	**configure** port *port* ethernet efm-oam peer-rdi-rx
Tree	peer-rdi-rx
Description	Commands in this context allow an action to be configured for the various event conditions that can be received from a peer under the context of the EFM-OAM protocol.
Introduced	25.3.R2

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Platforms	SAR Gen 2

critical-event *keyword*

Synopsis	Action taken after receipt of critical event flag
Context	**configure** port *port* ethernet efm-oam peer-rdi-rx critical-event *keyword*
Tree	critical-event
Description	This command defines how to react to the reception of a critical event flag field set in the informational OAMPDU.
Options	log-only, port-out-of-service
Default	port-out-of-service
Introduced	25.3.R2
Platforms	SAR Gen 2

dying-gasp *keyword*

Synopsis	Action taken after receipt of dying gasp flag
Context	**configure** port *port* ethernet efm-oam peer-rdi-rx dying-gasp *keyword*
Tree	dying-gasp
Description	This command defines how to react to the reception of a dying gasp flag field set in the informational OAMPDU.
Options	log-only, port-out-of-service
Default	port-out-of-service
Introduced	25.3.R2
Platforms	SAR Gen 2

event-notification *keyword*

Synopsis	Action taken after receipt of event TLVs
Context	**configure** port *port* ethernet efm-oam peer-rdi-rx event-notification *keyword*
Tree	event-notification
Description	This command defines the reaction to the reception of event TLVs contained in the event notification OAMPDU. The event TLVs contained in the event notification OAMPDU are analyzed to determine if the peer has crossed the error threshold for the window. The analysis does not consider any local SDs or SF thresholds. The analysis is based solely on the information received from the peer. The analysis is performed on all event TLVs contained in the event notification OAMPDU without regard for the support

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of specific error counters. In the case of symbol errors, a threshold below the error rate can be used to return the port to service.

Options	log-only, port-out-of-service
Default	log-only
Introduced	25.3.R2
Platforms	SAR Gen 2

link-fault *keyword*

Synopsis	Action taken after receipt of link fault flag
Context	**configure** port *port* ethernet efm-oam peer-rdi-rx link-fault *keyword*
Tree	link-fault
Description	This command defines how to react to the reception of a link fault flag set in the informational PDU from the peer.
Options	log-only, port-out-of-service
Default	port-out-of-service
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-loopback-forward-non-efm-frames *boolean*

Synopsis	Allow the forwarding of non-EFM frames on the port
Context	**configure** port *port* ethernet efm-oam remote-loopback-forward-non-efm-frames *boolean*
Tree	remote-loopback-forward-non-efm-frames
Description	When configured to **true**, the router forwards non-EFM traffic that is received from the EFM peer when in remote loopback state.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	Transmit interval of OAMPDUs
Context	**configure** port *port* ethernet efm-oam transmit-interval *number*
Tree	transmit-interval

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Range	1 to 600
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

trigger-fault *keyword*

Synopsis	Flag setting in the information OAMPDU
Context	**configure** port *port* ethernet efm-oam trigger-fault *keyword*
Tree	trigger-fault
Description	This command configures the appropriate flag field in the information OAMPDU, bursting three consecutive packets during the off cycle. If the local port state is operational, this command changes the local port state to "Link Up". If the local port state is not operational, this configuration is installed as an EFM reason to prevent the port from returning to an up operational state. This command can be used as a precursor to administratively disabling a port. This terminates the peering relationship without having to wait for protocol timeouts, assuming the peer supports the necessary action when receiving the dying gasp or critical event flag setting.
Options	dying-gasp, critical-event
Introduced	25.3.R2
Platforms	SAR Gen 2

tunneling *boolean*

Synopsis	Enable EFM-OAM PDU tunneling
Context	**configure** port *port* ethernet efm-oam tunneling *boolean*
Tree	tunneling
Description	When configured to **true**, the router enables EFM-OAM PDU tunneling. Enabling tunneling allows a port mode Epipe SAP to pass OAM frames through the pipe to the far end. When configured to **false**, tunneling is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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egress

Synopsis	Enter the **egress** context
Context	**configure** port *port* ethernet egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-bn-rate-changes *boolean*

Synopsis	Allow rate changes in ETH-BN messages on port-based MEP
Context	**configure** port *port* ethernet egress eth-bn-rate-changes *boolean*
Tree	eth-bn-rate-changes
Description	When configured to **true**, this command allows rate changes received in ETH-BN messages on a port-based MEP to update the egress rate used on the port. This command is not supported for all MDA types. When configured to **false**, rate changes in ETH-BN messages are denied.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-scheduler-policy

Synopsis	Enter the **port-scheduler-policy** context
Context	**configure** port *port* ethernet egress port-scheduler-policy
Tree	port-scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides
Tree	overrides
Description	Commands in this context configure egress scheduler overrides.

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Introduced	25.3.R2
Platforms	SAR Gen 2

level [priority-level] *number*

Synopsis	Enter the **level** list instance
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides level *number*
Tree	level
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Port priority level to be overridden
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides level *number*
Tree	level
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides level *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides level *number* rate cir *(number | keyword)*

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Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides level *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate

Synopsis	Enter the **max-rate** context
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides max-rate
Tree	max-rate
Description	Commands in this context override the **max-rate** command found in the port scheduler policy associated with the port. When a maximum rate is defined at the port or channel level, the port scheduler's policy **max-rate** command is ignored.
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *(number | keyword)*

Synopsis	PIR rate
Context	**configure** port *port* ethernet egress port-scheduler-policy overrides max-rate rate *(number | keyword)*
Tree	rate

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Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Egress scheduler policy name
Context	**configure** port *port* ethernet egress port-scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos port-scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *number*

Synopsis	Rate of egress traffic
Context	**configure** port *port* ethernet egress rate *number*
Tree	rate
Description	This command configures the rate of traffic leaving the network. An event log is generated each time the egress rate is modified unless the port is part of a LAG. This command is not supported for all MDA types.
Max. range	-2147483648 to 2147483647
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

encap-type *keyword*

Synopsis	Encapsulation method for the Ethernet port
Context	**configure** port *port* ethernet encap-type *keyword*
Tree	encap-type

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Options	null, dot1q, qinq
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** port *port* ethernet eth-cfm
Tree	eth-cfm
Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Description	Commands in this context provision an 802.1ag maintenance endpoint (MEP). Port-based MEPs and LAG-based MEPs are mutually exclusive. If a LAG member port includes a MEP, the configuration of a MEP on the LAG fails. If a LAG includes the configuration of a MEP, the configuration of MEPs on the LAG member ports fails.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ais

Synopsis	Enable the **ais** context

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Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais
Tree	ais
Description	Commands in this context enable the reception of AIS messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-meg-level *number*

Synopsis	Client MEG level for AIS message generation
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais client-meg-level *number*
Tree	client-meg-level
Description	This command configures the client Maintenance Entity Group (MEG) level to use for AIS message generation. One restriction is that the client MEG level must be higher than the local MEG level. Only the lowest client MEG level is used for facility MEPs.
Range	1 to 7
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-support *boolean*

Synopsis	Enable generation of AIS PDUs based on endpoint state
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interface-support *boolean*
Tree	interface-support
Description	When configured to **true**, the system enables the generation of AIS PDUs based on the associated endpoint state. AIS on operationally down MEPs triggers and clears based on the operational status of the entity it is configured on. If CCM is configured to **true**, transmission of the AIS PDU is based on either the nonoperational state of the entity or on any CCM defect conditions. AIS generation ceases if both the operational state is up and CCM has no defect conditions. If the MEP is not enabled with CCM, the operational state of the entity is the only consideration, assuming the command is present for the MEP. When configured to **false**, the generation of AIS PDUs is disabled.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Transmission interval for AIS messages
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interval *number*
Tree	interval
Range	1 | 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def – Generate AIS frame for any defect in CCM state machine mac-rem-err-xcon – Generate AIS frame for def-mac-status defect or higher
Default	all-def
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the AIS messages generated by the node
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2

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Platforms	SAR Gen 2

alarm-notification

Synopsis	Enter the **alarm-notification** context
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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ccm *boolean*

Synopsis	Generate CCM messages
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-tlv-ignore *keyword*

Synopsis	TLV to ignore on reception
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-tlv-ignore *keyword*
Tree	ccm-tlv-ignore
Description	This command configures the receiving MEP to ignore the specified TLVs in the CCM PDU. The ignored TLVs are reported as absent and have no impact on the MEP state machine. When unconfigured, the MEP processes all the recognized TLVs.
Options	interface-status, port-status
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-bn

Synopsis	Enter the **eth-bn** context
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-bn
Tree	eth-bn
Description	Commands in this context configure Ethernet Bandwidth Notification (ETH-BN) message handling.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Enable the reception and processing of ETH-BN messages
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-bn receive *boolean*
Tree	receive
Description	When configured to **true**, this command enables the reception and processing of ETH-BN messages and the retrieval and processing of the current bandwidth field for inclusion in dynamic egress rate adjustments. The received rate is an Layer 2 rate, and is expected to be in Mb/s. If this rate is a link rate (including preamble, start frame delimiter, and inter-frame gap), this would require the use of network egress queue groups. When configured to **false**, message reception is disabled.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

rx-update-pacing *number*

Synopsis	Pace of messages to and from ETH-CFM to QoS subsystems
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-bn rx-update-pacing *number*
Tree	rx-update-pacing
Description	This command sets the pace for update messages to and from the ETH-CFM subsystem to the QoS subsystem. The most recent update messages are held by the ETH-CFM subsystem, but the most recent update is held until the expiration of the pacing timer.
Range	1 to 600
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors

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Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros
Introduced	25.3.R2

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Platforms	SAR Gen 2

facility-fault *boolean*

Synopsis	Allow the facility MEP to generate a network action
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* facility-fault *boolean*
Tree	facility-fault
Description	When configured to **true**, the system facility MEP responds to a fault with a network-actionable function instead of just reporting the defect condition. When configured to **false**, the system monitors transmissions and reports fault conditions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)

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Introduced	25.3.R2
Platforms	SAR Gen 2

one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** port *port* ethernet eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** port *port* ethernet hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

down *number*

Synopsis	Delay after interface goes from up state to down state
Context	**configure** port *port* ethernet hold-time down *number*
Tree	down
Description	This command specifies the delay to notify the upper layers after an interface transitions from an up state to a down state. When an interface transitions from an up state to a down state, it is immediately advertised to the rest of the system if the down interval is zero, but if the down interval is greater than zero, interface down transitions are not advertised to upper layers until the down interval has expired.
Range	1 to 3600000
Introduced	25.3.R2

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Platforms	SAR Gen 2

units *keyword*

Synopsis	Hold time units
Context	**configure** port *port* ethernet hold-time units *keyword*
Tree	units
Options	seconds, centiseconds
Default	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up *number*

Synopsis	Delay after interface goes from down state to up state
Context	**configure** port *port* ethernet hold-time up *number*
Tree	up
Description	This command specifies the delay to notify the upper layers after an interface transitions from a down state to an up state. When an interface transitions from a down state to an up state, it is immediately advertised as up to the rest of the system if the up interval is zero, but if the up interval is greater than zero, up transitions are not advertised until the up interval has expired.
Range	1 to 3600000
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** port *port* ethernet ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

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pre-classifier

Synopsis	Enter the **pre-classifier** context
Context	**configure** port *port* ethernet ingress pre-classifier
Tree	pre-classifier
Description	Commands in this context attach an ingress preclassifier policy to the specified port.
Introduced	26.3.R1
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Preclassifier policy name
Context	**configure** port *port* ethernet ingress pre-classifier policy-name *reference*
Tree	policy-name
Reference	**configure** qos pre-classifier-policy *named-item-64*
Introduced	26.3.R1
Platforms	SAR Gen 2

rate *number*

Synopsis	Maximum ingress bandwidth
Context	**configure** port *port* ethernet ingress rate *number*
Tree	rate
Max. range	-2147483648 to 2147483647
Units	megabps
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp-tunnel *boolean*

Synopsis	Enable LACP packet tunneling for the Ethernet port
Context	**configure** port *port* ethernet lacp-tunnel *boolean*
Tree	lacp-tunnel
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

lldp

Synopsis	Enter the **lldp** context
Context	**configure** port *port* ethernet lldp
Tree	lldp
Description	Commands in this context configure the Link Layer Discovery Protocol (LLDP) on the port.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-mac [mac-type] *keyword*

Synopsis	Enter the **dest-mac** list instance
Context	**configure** port *port* ethernet lldp dest-mac *keyword*
Tree	dest-mac
Description	Commands in this context configure destination MAC address commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-type**] *keyword*

Synopsis	Destination MAC address type
Context	**configure** port *port* ethernet lldp dest-mac *keyword*
Tree	dest-mac
Options	nearest-bridge – Use the nearest bridge nearest-non-tpmr – Use nearest non-Two-Port MAC Relay (TPMR) nearest-customer – Use the nearest customer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

notification *boolean*

Synopsis	Enable LLDP notifications

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Context	**configure** port *port* ethernet lldp dest-mac *keyword* notification *boolean*
Tree	notification
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id-subtype *keyword*

Synopsis	Port ID TLV encoding method for transmission to peer
Context	**configure** port *port* ethernet lldp dest-mac *keyword* port-id-subtype *keyword*
Tree	port-id-subtype
Options	tx-if-alias, tx-if-name, tx-local
Default	tx-local
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Enable LLDP agent to receive but not transmit frames
Context	**configure** port *port* ethernet lldp dest-mac *keyword* receive *boolean*
Tree	receive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit *boolean*

Synopsis	Enable the LLDP agent to transmit frames
Context	**configure** port *port* ethernet lldp dest-mac *keyword* transmit *boolean*
Tree	transmit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunnel-nearest-bridge *boolean*

Synopsis	Allow the received LLDP packets to be tunneled
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tunnel-nearest-bridge *boolean*
Tree	tunnel-nearest-bridge
Description	When configured to **true**, the system allows LLDP packets received on the port with the destination address of the nearest bridge to be tunneled without being intercepted on the local port. When configured to **false**, the system disables nearest bridge tunneling. The **nearest-bridge** option in the **configure port ethernet lldp dest-mac mac-type** command must be disabled for tunneling to occur. This is applicable to NULL SAP Epipe and VPLS services only.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-nearest-customer *boolean*

Synopsis	Enable the nearest customer tunneling
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tunnel-nearest-customer *boolean*
Tree	tunnel-nearest-customer
Description	When configured to **true**, the system allows LLDP packets received on the port with the destination address of the nearest customer to be tunneled without being intercepted on the local port. When configured to **false**, the system disables nearest customer tunneling.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-nearest-non-tpmr *boolean*

Synopsis	Enable the nearest non-TPMR tunneling
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tunnel-nearest-non-tpmr *boolean*
Tree	tunnel-nearest-non-tpmr
Description	When configured to **true**, the system allows LLDP packets received on the port with the destination address of the nearest non-TPMR to be tunneled without being intercepted on the local port.

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When configured to **false**, the system disables nearest non-TPMR tunneling.

Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tx-mgmt-address [mgmt-address-system-type] *keyword*

Synopsis	Enter the **tx-mgmt-address** list instance
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-mgmt-address *keyword*
Tree	tx-mgmt-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mgmt-address-system-type**] *keyword*

Synopsis	Management address to transmit
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-mgmt-address *keyword*
Tree	tx-mgmt-address
Options	oob, system, system-ipv6, oob-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of transmitting management address
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-mgmt-address *keyword* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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tx-tlvs

Synopsis	Enter the **tx-tlvs** context
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-tlvs
Tree	tx-tlvs
Introduced	25.3.R2
Platforms	SAR Gen 2

port-desc *boolean*

Synopsis	Transmit port description TLVs
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-tlvs port-desc *boolean*
Tree	port-desc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sys-cap *boolean*

Synopsis	Transmit system capabilities TLVs
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-tlvs sys-cap *boolean*
Tree	sys-cap
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sys-desc *boolean*

Synopsis	Transmit system description TLVs
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-tlvs sys-desc *boolean*
Tree	sys-desc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sys-name *boolean*

Synopsis	Transmit system name TLVs
Context	**configure** port *port* ethernet lldp dest-mac *keyword* tx-tlvs sys-name *boolean*
Tree	sys-name
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-algorithm *keyword*

Synopsis	Load balancing algorithm for the Ethernet port
Context	**configure** port *port* ethernet load-balancing-algorithm *keyword*
Tree	load-balancing-algorithm
Options	default, include-l4, exclude-l4
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address of the Ethernet port
Context	**configure** port *port* ethernet mac-address *mac-address*
Tree	mac-address
Description	This command specifies the MAC address of the Ethernet port. Allowed values are any non-broadcast, non-multicast MAC, and non-IEEE reserved MAC addresses. The default value indicates that an operation MAC address is to be assigned from the chassis MAC address pool.
Default	00:00:00:00:00:00
Introduced	25.3.R2
Platforms	SAR Gen 2

min-frame-length *number*

Synopsis	Minimum transmitted frame length
Context	**configure** port *port* ethernet min-frame-length *number*

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Tree	min-frame-length
Description	This command configures the minimum transmitted frame length.
Range	64 | 68 | 72
Units	bytes
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Operation mode for the Ethernet port
Context	**configure** port *port* ethernet mode *keyword*
Tree	mode
Options	access, network, hybrid
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	Maximum payload MTU size for the Ethernet port
Context	**configure** port *port* ethernet mtu *number*
Tree	mtu
Description	This command configures the maximum payload MTU size for the Ethernet port. This command indirectly defines the largest physical packet the port can transmit or the far-end Ethernet port can receive. Packets that cannot be fragmented at egress and exceed the MTU size are discarded. The MTU size includes the destination MAC address, source MAC address, the Ethertype or length field, and the complete Ethernet payload. This value does not include the preamble, start of frame delimiter, or the trailing CRC.
Range	512 to 9800
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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network

Synopsis	Enter the **network** context
Context	**configure** port *port* ethernet network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy that applies to the network port
Context	**configure** port *port* ethernet network accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* ethernet network collect-stats *boolean*
Tree	collect-stats
Description	When configured to **true**, this command enables the collection of accounting and statistical data for the network interface. When applying accounting policies, by default the data is collected in the appropriate records and written to the designated billing file. When configured to **false**, the statistics are still accumulated by the XCM or IOM cards. However, the CPU does not obtain the results and write them to the billing file.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** port *port* ethernet network egress
Tree	egress

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Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [queue-group-name] *reference* instance-id *number*

Synopsis	Enter the **queue-group** list instance
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number*
Tree	queue-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-group-name**] *reference*

Synopsis	Queue group name
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number*
Tree	queue-group
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

instance-id *number*

Synopsis	Instance ID for the egress queue group
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number*
Tree	queue-group
Range	1 to 65535
MD-CLI default	1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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accounting-policy *reference*

Synopsis	Accounting policy for the Ethernet port
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy *reference*

Synopsis	Policer control policy for the QoS egress queue group
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* policer-control-policy *reference*

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Tree	policer-control-policy
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-overrides

Synopsis	Enter the **queue-overrides** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides
Tree	queue-overrides
Description	Commands in this context define queue command overrides for each queue within the queue group.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Queue ID
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates egress queue-group *named-item* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Description	Commands in this context specify the method used by the system to derive the operational CIR and PIR settings when the queue is provisioned in hardware. For the CIR and PIR commands individually, the system attempts to find the best operational rate depending on the defined constraint. Commands in this context are ignored for egress HSQ queue group queues that are attached to an HS WRR group within an associated HS attachment policy. In this case, the configuration of the adaptation rule is performed under the **hs-wrr-group** command within the egress queue group template.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

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cbs *(number | keyword)*

Synopsis	CBS for the template queue
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* drop-tail
Tree	drop-tail
Description	Commands in this context configure queue drop tail commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* drop-tail low
Tree	low
Description	Commands in this context configure the queue low drop tail commands. The low drop tail defines the queue depth beyond which the out-of-profile packets are not accepted into the queue and discarded.
Introduced	25.3.R2
Platforms	SAR Gen 2

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percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Description	This command overrides the low queue drop tail as a percentage reduction from the MBS of the queue. For example, if a queue has an MBS of 600 kbytes and this percentage is configured to be 30% for the low drop tail, the low drop tail is set to 420 kbytes and the out-of-profile packets are not accepted into the queue if its depth is greater than this value, and is therefore discarded.
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS for the template queue
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* percent-rate
Tree	percent-rate
Description	Commands in this context specify percent rates. This command is ignored for egress HSQ queue group queues, which are attached to an HS WRR group within an associated HS attachment policy. In this case, the

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configuration of the percent rate is performed under the **hs-wrr-group** command within the egress queue group template.

Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR for the queue
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR for the queue
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* rate
Tree	rate
Description	Commands in this context specify the administrative PIR and CIR for the queue. Defining a PIR does not necessarily guarantee that the queue can transmit at the

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intended rate. The actual rate sustained by the queue can be limited by oversubscription factors or available egress bandwidth.

This command can be executed at anytime, altering the PIR and CIR rates for all queues created through the association of the SAP egress QoS policy with the queue ID.

This command is ignored for egress HSQ queue group queues, which are attached to an HS WRR group within an associated HS attachment policy. In this case, the configuration of the rate is performed under the **hs-wrr-group** command within the egress queue group template.

Notes The following elements are part of a choice: **percent-rate** or **rate**.

Introduced 25.3.R2

Platforms SAR Gen 2

cir *(number | keyword)*

Synopsis CIR for the queue

Context **configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* rate cir *(number | keyword)*

Tree cir

Description This command specifies the administrative CIR used by the queue. When the **rate** command is executed, a CIR setting is optional. Fractional values are not allowed and must be given as a positive integer.

The CIR defines the rate at which the system prioritizes the queue over other queues competing for the same bandwidth. In-profile then out-of-profile packets are preferentially queued by the system at egress and at subsequent next hop nodes where the packet can traverse. To be properly handled throughout the network, the packets must be marked accordingly for profiling at each hop.

The CIR can be used by the queue's parent **cir-level** and **cir-weight** commands to define the amount of bandwidth considered to be committed for the child queue during bandwidth allocation by the parent scheduler.

Range 0 to 2000000000

Units kilobps

Options max

Introduced 25.3.R2

Platforms SAR Gen 2

pir *(number | keyword)*

Synopsis PIR for the queue

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Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* queue-overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Description	This command specifies the administrative PIR used by the queue. When the **rate** command is executed, a valid PIR setting must be explicitly defined. Fractional values are not allowed and must be given as a positive integer. The actual PIR rate is dependent on the queue's **adaptation-rule** commands and the actual hardware where the queue is provisioned. The PIR defines the maximum rate that the queue can transmit packets out an egress interface (for SAP egress queues). Defining a PIR does not necessarily guarantee that the queue can transmit at the intended rate. The actual rate sustained by the queue can be limited by oversubscription factors or available egress bandwidth.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy for the QoS egress queue group
Context	**configure** port *port* ethernet network egress queue-group *reference* instance-id *number* scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-policy *reference*

Synopsis	Network queue policy
Context	**configure** port *port* ethernet network egress queue-policy *reference*
Tree	queue-policy
Reference	**configure** qos network-queue *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp-asymmetry *number*

Synopsis	PTP asymmetry delay on the Ethernet port
Context	**configure** port *port* ethernet ptp-asymmetry *number*
Tree	ptp-asymmetry
Description	This command configures the PTP asymmetry delay on the Ethernet port. This command is used to correct known asymmetry as part of time of day or phase recovery using PTP packets on both local and downstream PTP clocks.
Max. range	-2147483648 to 2147483647
Units	nanoseconds
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ptp-timestamping

Synopsis	Enable the **ptp-timestamping** context
Context	**configure** port *port* ethernet ptp-timestamping
Tree	ptp-timestamping
Description	Commands in this context configure port-based filtering for the ingress 1588 timestamping of PTP messages to match multiple PTP flows.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of PTP timestamping
Context	**configure** port *port* ethernet ptp-timestamping admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipv4-address *ipv4-address*

Synopsis	IPv4 destination address for PTP messages into port
Context	**configure** port *port* ethernet ptp-timestamping ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipv6-address *ipv6-address*

Synopsis	IPv6 destination address for PTP messages into port
Context	**configure** port *port* ethernet ptp-timestamping ipv6-address *ipv6-address*
Tree	ipv6-address
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ptp-tunnel *boolean*

Synopsis	Enable the tunneling of PTP frames on the port
Context	**configure** port *port* ethernet ptp-tunnel *boolean*
Tree	ptp-tunnel
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

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qinq-etype *etype*

Synopsis	Ethertype for QinQ encapsulation
Context	**configure** port *port* ethernet qinq-etype *etype*
Tree	qinq-etype
Default	33024
Introduced	25.3.R2
Platforms	SAR Gen 2

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* ethernet report-alarm
Tree	report-alarm
Description	Commands in this context specify the settings for alarm generation and alarm clear notifications for the port. **Note:** For some DWDM transceivers, if the **configure port dwdm coherent rx-los-reaction squelch** command is disabled, the signal-fail and no-am-lock alarm conditions are not reported when the media side of the transceiver has an RX LOS condition.
Introduced	25.3.R2
Platforms	SAR Gen 2

alignment-marker-not-locked *boolean*

Synopsis	Report 40G/100G PCS Alignment Marker Loss of Lock
Context	**configure** port *port* ethernet report-alarm alignment-marker-not-locked *boolean*
Tree	alignment-marker-not-locked
Description	When configured to **true**, Alignment Marker Loss of Lock alarms are reported for this port.
Introduced	25.3.R2
Platforms	SAR Gen 2

block-not-locked *boolean*

Synopsis	Report 40G/100G PCS Lanes Not Block Locked
Context	**configure** port *port* ethernet report-alarm block-not-locked *boolean*

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Tree	block-not-locked
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-lane *boolean*

Synopsis	Report 40G/100G PCS Duplicate Lane Marker alarm
Context	**configure** port *port* ethernet report-alarm duplicate-lane *boolean*
Tree	duplicate-lane
Introduced	25.3.R2
Platforms	SAR Gen 2

frame-not-locked *boolean*

Synopsis	Report "not locked on the Ethernet framing sequence"
Context	**configure** port *port* ethernet report-alarm frame-not-locked *boolean*
Tree	frame-not-locked
Introduced	25.3.R2
Platforms	SAR Gen 2

high-ber *boolean*

Synopsis	Report High Bit Error Rate
Context	**configure** port *port* ethernet report-alarm high-ber *boolean*
Tree	high-ber
Introduced	25.3.R2
Platforms	SAR Gen 2

local *boolean*

Synopsis	Report local faults
Context	**configure** port *port* ethernet report-alarm local *boolean*
Tree	local
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote *boolean*

Synopsis	Report remote faults
Context	**configure** port *port* ethernet report-alarm remote *boolean*
Tree	remote
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-fail *boolean*

Synopsis	Report Ethernet signal lost alarm
Context	**configure** port *port* ethernet report-alarm signal-fail *boolean*
Tree	signal-fail
Introduced	25.3.R2
Platforms	SAR Gen 2

rs-fec-mode *keyword*

Synopsis	RS-FEC mode on the Ethernet port
Context	**configure** port *port* ethernet rs-fec-mode *keyword*
Tree	rs-fec-mode
Description	This command specifies the RS-FEC (Reed-Solomon Forward Error Correction) mode on the Ethernet port. See "Forward Error Correction" in the *7705 SAR Gen 2 Interface Configuration Guide* for more information about FEC settings.
Options	cl91-514-528, cl74, cl108
Introduced	25.3.R2
Platforms	SAR Gen 2

speed *number*

Synopsis	Ethernet port speed
Context	**configure** port *port* ethernet speed *number*
Tree	speed
Description	This command configures the port speed for ports that support multiple speeds. This applies to the following:

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- Fast Ethernet when autonegotiation is not enabled
- 10/100/1000 Mb/s Ethernet when autonegotiation is not enabled
- 10/1G ports supporting 10G SFP+ or 1G SFP
- 40/100G ports supporting QSFP28s on non connector-based MDAs

If autonegotiation is enabled for the port, this command setting is ignored. Speed cannot be configured for ports that are part of a LAG.

Range	10 | 100 | 1000 | 10000 | 25000 | 40000 | 50000 | 100000
Units	megabps
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm

Synopsis	Enter the **ssm** context
Context	**configure** port *port* ethernet ssm
Tree	ssm
Description	Commands in this context configure the Ethernet Synchronization Messaging Channel (ESMC) for the Ethernet port. The ESMC carries the Synchronization Status Message (SSM) code representing the quality level of the source of the frequency of the central clock of the node.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the ESMC for the Ethernet port
Context	**configure** port *port* ethernet ssm admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

code-type *keyword*

Synopsis	Encoding type of SSMs

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Context	**configure** port *port* ethernet ssm code-type *keyword*
Tree	code-type
Description	This command configures the use of the SDH/SONET set of values to encode SSMs. Configuring the network type is only applicable to SyncE ports. It is not configurable on SONET/SDH ports.
Options	sonet – G.781 Option I compliant network sdh – G.781 Option II compliant network
Default	sdh
Introduced	25.3.R2
Platforms	SAR Gen 2

esmc-tunnel *boolean*

Synopsis	Tunnel ESMC frames in Epipe or VPLS services
Context	**configure** port *port* ethernet ssm esmc-tunnel *boolean*
Tree	esmc-tunnel
Description	When configured to **true**, ESMC frames that are received into the Ethernet port can be tunneled in an Epipe or VPLS service. When configured to **false**, ESMC frames are extracted upon reception by the port and are not tunneled through the service.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tx-dus *boolean*

Synopsis	Force QL value transmitted be set to QL-DNU or QL-DUS
Context	**configure** port *port* ethernet ssm tx-dus *boolean*
Tree	tx-dus
Description	When configured to **true**, the router sets the QL value transmitted from the SSM channel of the SyncE port to QL-DUS or QL-DNU. This capability is provided to block the use of the interface from the 7705 SAR Gen 2 for timing purposes.
Introduced	25.3.R2
Platforms	SAR Gen 2

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tx-extended-ql-tlv *boolean*

Synopsis	Include the Extended QL TLV in transmitted ESMC
Context	**configure** port *port* ethernet ssm tx-extended-ql-tlv *boolean*
Tree	tx-extended-ql-tlv
Description	When configured to **true**, the router includes the Extended QL TLV in transmitted ESMC messages. When configured to **false**, the router turns off the inclusion of the TLV in the ESMC messages.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

util-stats-interval *number*

Synopsis	Interval to calculate utilization statistics
Context	**configure** port *port* ethernet util-stats-interval *number*
Tree	util-stats-interval
Description	This command configures the interval used to calculate the utilization statistics. Port utilization statistics are only available for physical Ethernet ports on a host system. These statistics are not available for the following: • Ethernet ports on an Ethernet satellite • PXC ports • vsm-cca-xp ports
Range	30 to 600
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

xgig *keyword*

Synopsis	Ethernet port mode
Context	**configure** port *port* ethernet xgig *keyword*
Tree	xgig
Description	This command configures a 10 Gb/s interface to be in LAN or WAN mode.

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When configuring the port to be in WAN mode, certain SONET/SDH commands can be changed to reflect the SONET/SDH requirements for the port. When configuring the port to be in LAN mode, all SONET/SDH commands are pre-determined and not configurable.

Options	lan, wan
Introduced	25.3.R2
Platforms	SAR Gen 2

gnss

Synopsis	Enter the **gnss** context
Context	**configure** port *port* gnss
Tree	gnss
Description	Commands in this context configure GNSS port attributes.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

antenna-cable-delay *number*

Synopsis	Signal delay resulting from GNSS antenna cable length
Context	**configure** port *port* gnss antenna-cable-delay *number*
Tree	antenna-cable-delay
Description	This command configures the expected signal delay resulting from the length of the GNSS antenna cable.
Range	0 to 32767
Units	nanoseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

constellation

Synopsis	Enter the **constellation** context
Context	**configure** port *port* gnss constellation
Tree	constellation

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Description	Commands in this context configure the GNSS systems that are used by the GNSS receiver.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

galileo *boolean*

Synopsis	Enable GNSS receiver to use GALILEO constellation type
Context	**configure** port *port* gnss constellation galileo *boolean*
Tree	galileo
Description	When configured to **true**, this command enables the use of the European Galileo GNSS system.
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

glonass *boolean*

Synopsis	Enable GNSS receiver to use GLONASS constellation type
Context	**configure** port *port* gnss constellation glonass *boolean*
Tree	glonass
Description	When configured to **true**, the system enables the use of the Russian GLONASS GNSS system. **Note**: The **glonass** command is currently not supported.
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

gps *boolean*

Synopsis	Enable GNSS receiver to use GPS constellation type
Context	**configure** port *port* gnss constellation gps *boolean*
Tree	gps
Description	When configured to **true**, this command enables the use of the American GPS GNSS system.

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When configured to **false**, this command disables the use of the American GPS GNSS system.

Default true

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

elevation-mask-angle *number*

Synopsis Minimum elevation mask angle

Context **configure** port *port* gnss elevation-mask-angle *number*

Tree elevation-mask-angle

Description This command configures the elevation mask angle, which provides a method of filtering satellites used by the system.

Satellites with low elevation may provide degraded accuracy because of the long signal path through the atmosphere. Signals from satellites below the configured minimum satellite elevation are not used.

Nokia does not recommend configuring an elevation mask angle below 10.

Range 0 to 89

Units degrees angle

Default 10

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

signal-cnr-mask *number*

Synopsis Signal CNR mask strength in dB-Hz

Context **configure** port *port* gnss signal-cnr-mask *number*

Tree signal-cnr-mask

Description This command configures the threshold to determine the signal strength of the CNR mask to filter satellites used by the system. Satellites with CNR values below the configured minimum threshold may negatively impact accuracy, and their signals are ignored.

Range 0 to 37

Default 30

Introduced 26.7.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

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monitor-oper-group *reference*

Synopsis	Operational group to monitor
Context	**configure** port *port* monitor-oper-group *reference*
Tree	monitor-oper-group
Description	This command configures the operational group to monitor the operational group state. The state of the operational group affects the state of this port. When the operational group is inactive, the state of the port goes down and powers off the port to signal to the CE that the connected port is not available.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** port *port* network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** port *port* network egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** port *port* network egress pool *named-item*
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	Pool name
Context	**configure** port *port* network egress pool *named-item*
Tree	pool
String length	1 to 32
MD-CLI default	default
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

otu

Synopsis	Enable the **otu** context
Context	**configure** port *port* otu
Tree	otu
Introduced	25.3.R2
Platforms	SAR Gen 2

async-mapping *boolean*

Synopsis	Allow asynchoronous mapping of the payload inside OTU
Context	**configure** port *port* otu async-mapping *boolean*
Tree	async-mapping
Introduced	25.3.R2
Platforms	SAR Gen 2

fec *keyword*

Synopsis	Forwarding Error Correction (FEC) encapsulation on port
Context	**configure** port *port* otu fec *keyword*
Tree	fec
Options	none, g709, enhanced

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Introduced	25.3.R2
Platforms	SAR Gen 2

fine-granularity-ber

Synopsis	Enter the **fine-granularity-ber** context
Context	**configure** port *port* otu fine-granularity-ber
Tree	fine-granularity-ber
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-degrade

Synopsis	Enter the **signal-degrade** context
Context	**configure** port *port* otu fine-granularity-ber signal-degrade
Tree	signal-degrade
Introduced	25.3.R2
Platforms	SAR Gen 2

clear

Synopsis	Enter the **clear** context
Context	**configure** port *port* otu fine-granularity-ber signal-degrade clear
Tree	clear
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Multiplier of the SD clear threshold
Context	**configure** port *port* otu fine-granularity-ber signal-degrade clear multiplier *number*
Tree	multiplier
Range	10 to 99
Default	10
Introduced	25.3.R2

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Platforms	SAR Gen 2

threshold *number*

Synopsis	SD clear threshold
Context	**configure** port *port* otu fine-granularity-ber signal-degrade clear threshold *number*
Tree	threshold
Range	3 to 10
Default	8
Introduced	25.3.R2
Platforms	SAR Gen 2

raise

Synopsis	Enter the **raise** context
Context	**configure** port *port* otu fine-granularity-ber signal-degrade raise
Tree	raise
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Multiplier of the SD raise threshold
Context	**configure** port *port* otu fine-granularity-ber signal-degrade raise multiplier *number*
Tree	multiplier
Range	10 to 99
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	SD raise threshold
Context	**configure** port *port* otu fine-granularity-ber signal-degrade raise threshold *number*
Tree	threshold

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Range	3 to 9
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-failure

Synopsis	Enter the **signal-failure** context
Context	**configure** port *port* otu fine-granularity-ber signal-failure
Tree	signal-failure
Introduced	25.3.R2
Platforms	SAR Gen 2

clear

Synopsis	Enter the **clear** context
Context	**configure** port *port* otu fine-granularity-ber signal-failure clear
Tree	clear
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Threshold for the Multiplier of SD clear
Context	**configure** port *port* otu fine-granularity-ber signal-failure clear multiplier *number*
Tree	multiplier
Range	10 to 99
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold for the Multiplier of SD clear
Context	**configure** port *port* otu fine-granularity-ber signal-failure clear threshold *number*

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Tree	threshold
Range	3 to 9
Default	6
Introduced	25.3.R2
Platforms	SAR Gen 2

raise

Synopsis	Enter the **raise** context
Context	**configure** port *port* otu fine-granularity-ber signal-failure raise
Tree	raise
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	SF raise threshold
Context	**configure** port *port* otu fine-granularity-ber signal-failure raise multiplier *number*
Tree	multiplier
Range	10 to 99
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	SF raise threshold
Context	**configure** port *port* otu fine-granularity-ber signal-failure raise threshold *number*
Tree	threshold
Range	3 to 8
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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otu2-lan-data-rate *keyword*

Synopsis	Data rate for 10GE LAN OTU2 on the port
Context	**configure** port *port* otu otu2-lan-data-rate *keyword*
Tree	otu2-lan-data-rate
Units	gigabps
Options	11.049, 11.096
Introduced	25.3.R2
Platforms	SAR Gen 2

path-monitoring

Synopsis	Enter the **path-monitoring** context
Context	**configure** port *port* otu path-monitoring
Tree	path-monitoring
Introduced	25.3.R2
Platforms	SAR Gen 2

trail-trace-identifier

Synopsis	Enter the **trail-trace-identifier** context
Context	**configure** port *port* otu path-monitoring trail-trace-identifier
Tree	trail-trace-identifier
Introduced	25.3.R2
Platforms	SAR Gen 2

expected

Synopsis	Enter the **expected** context
Context	**configure** port *port* otu path-monitoring trail-trace-identifier expected
Tree	expected
Introduced	25.3.R2
Platforms	SAR Gen 2

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auto-generated

Synopsis	Use the system generated TTI
Context	**configure** port *port* otu path-monitoring trail-trace-identifier expected auto-generated
Tree	auto-generated
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bytes *string*

Synopsis	TTI as a sequence of bytes
Context	**configure** port *port* otu path-monitoring trail-trace-identifier expected bytes *string*
Tree	bytes
String length	0 to 192
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	TTI as a sequence of printable ASCII
Context	**configure** port *port* otu path-monitoring trail-trace-identifier expected string *string*
Tree	string
String length	0 to 64
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mismatch-reaction *keyword*

Synopsis	Reaction to a mismatched TTI
Context	**configure** port *port* otu path-monitoring trail-trace-identifier mismatch-reaction *keyword*
Tree	mismatch-reaction
Options	squelch-rx

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Introduced	25.3.R2
Platforms	SAR Gen 2

transmit

Synopsis	Enter the **transmit** context
Context	**configure** port *port* otu path-monitoring trail-trace-identifier transmit
Tree	transmit
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-generated

Synopsis	Use the system generated TTI
Context	**configure** port *port* otu path-monitoring trail-trace-identifier transmit auto-generated
Tree	auto-generated
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bytes *string*

Synopsis	TTI as a sequence of bytes
Context	**configure** port *port* otu path-monitoring trail-trace-identifier transmit bytes *string*
Tree	bytes
String length	0 to 192
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	TTI as a sequence of printable ASCII
Context	**configure** port *port* otu path-monitoring trail-trace-identifier transmit string *string*
Tree	string

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String length	0 to 64
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

payload-structure-identifier

Synopsis	Enter the **payload-structure-identifier** context
Context	**configure** port *port* otu payload-structure-identifier
Tree	payload-structure-identifier
Introduced	25.3.R2
Platforms	SAR Gen 2

payload

Synopsis	Enter the **payload** context
Context	**configure** port *port* otu payload-structure-identifier payload
Tree	payload
Introduced	25.3.R2
Platforms	SAR Gen 2

expected *keyword*

Synopsis	Expected received payload type of the PSI
Context	**configure** port *port* otu payload-structure-identifier payload expected *keyword*
Tree	expected
Options	auto, experimental, asynchronous-cbr, bit-synchronous-cbr, atm, gfp, vcat, gmp, bit-stream-octet, bit-stream-non-octet, odu-mux, reserved-80, reserved-81, reserved-82, reserved-83, reserved-84, reserved-85, reserved-86, reserved-87, reserved-88, reserved-89, reserved-8a, reserved-8b, reserved-8c, reserved-8d, reserved-8e, reserved-8f, null-test, prbs-test
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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mismatch-reaction *keyword*

Synopsis	Reaction to a mismatched payload
Context	**configure** port *port* otu payload-structure-identifier payload mismatch-reaction *keyword*
Tree	mismatch-reaction
Options	squelch-rx
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit *keyword*

Synopsis	Transmit payload type
Context	**configure** port *port* otu payload-structure-identifier payload transmit *keyword*
Tree	transmit
Options	auto, experimental, asynchronous-cbr, bit-synchronous-cbr, atm, gfp, vcat, gmp, bit-stream-octet, bit-stream-non-octet, odu-mux, reserved-80, reserved-81, reserved-82, reserved-83, reserved-84, reserved-85, reserved-86, reserved-87, reserved-88, reserved-89, reserved-8a, reserved-8b, reserved-8c, reserved-8d, reserved-8e, reserved-8f, null-test, prbs-test
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* otu report-alarm
Tree	report-alarm
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-fail *boolean*

Synopsis	Report FEC mode mismatch alarm
Context	**configure** port *port* otu report-alarm fec-fail *boolean*
Tree	fec-fail

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-sd *boolean*

Synopsis	Report Signal Degrade alarm
Context	**configure** port *port* otu report-alarm fec-sd *boolean*
Tree	fec-sd
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-sf *boolean*

Synopsis	Report Signal Fail alarm
Context	**configure** port *port* otu report-alarm fec-sf *boolean*
Tree	fec-sf
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-uncorr *boolean*

Synopsis	Report one or more Uncorrectable FEC errors alarm
Context	**configure** port *port* otu report-alarm fec-uncorr *boolean*
Tree	fec-uncorr
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

loc *boolean*

Synopsis	Report OTU alarm for loss of clock
Context	**configure** port *port* otu report-alarm loc *boolean*

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Tree	loc
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

lof *boolean*

Synopsis	Report alarm for the loss of OTU framing
Context	**configure** port *port* otu report-alarm lof *boolean*
Tree	lof
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

lom *boolean*

Synopsis	Report alarm for the loss of multi-frame
Context	**configure** port *port* otu report-alarm lom *boolean*
Tree	lom
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

los *boolean*

Synopsis	Report alarm for the loss of signal transitions on data
Context	**configure** port *port* otu report-alarm los *boolean*
Tree	los
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

odu-ais *boolean*

Synopsis	Report ODU Alarm Indication Signal alarm

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Context	**configure** port *port* otu report-alarm odu-ais *boolean*
Tree	odu-ais
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

odu-bdi *boolean*

Synopsis	Report PM Backward Defect Indication alarm
Context	**configure** port *port* otu report-alarm odu-bdi *boolean*
Tree	odu-bdi
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

odu-lck *boolean*

Synopsis	Report ODU Locked alarm
Context	**configure** port *port* otu report-alarm odu-lck *boolean*
Tree	odu-lck
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

odu-oci *boolean*

Synopsis	Report ODU Open Connection Indication alarm
Context	**configure** port *port* otu report-alarm odu-oci *boolean*
Tree	odu-oci
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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odu-tim *boolean*

Synopsis	Report PM Trace ID Mismatch alarm
Context	**configure** port *port* otu report-alarm odu-tim *boolean*
Tree	odu-tim
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

opu-plm *boolean*

Synopsis	Report PSI Payload Type Mismatch alarm
Context	**configure** port *port* otu report-alarm opu-plm *boolean*
Tree	opu-plm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

otu-ais *boolean*

Synopsis	Report OTU Alarm Indication Signal alarm
Context	**configure** port *port* otu report-alarm otu-ais *boolean*
Tree	otu-ais
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

otu-bdi *boolean*

Synopsis	Report SM Backward Defect Indication alarm
Context	**configure** port *port* otu report-alarm otu-bdi *boolean*
Tree	otu-bdi
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

otu-ber-sd *boolean*

Synopsis	Report SM Signal Degrade alarm
Context	**configure** port *port* otu report-alarm otu-ber-sd *boolean*
Tree	otu-ber-sd
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

otu-ber-sf *boolean*

Synopsis	Report SM Signal Fail alarm
Context	**configure** port *port* otu report-alarm otu-ber-sf *boolean*
Tree	otu-ber-sf
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

otu-biae *boolean*

Synopsis	Report SM Backward Incoming Alignment Error alarm
Context	**configure** port *port* otu report-alarm otu-biae *boolean*
Tree	otu-biae
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

otu-iae *boolean*

Synopsis	Report SM Incoming Alignment Error alarm
Context	**configure** port *port* otu report-alarm otu-iae *boolean*
Tree	otu-iae
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

otu-tim *boolean*

Synopsis	Report SM Trace ID Mismatch alarm
Context	**configure** port *port* otu report-alarm otu-tim *boolean*
Tree	otu-tim
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sd-threshold *number*

Synopsis	Error rate at which to declare signal degrade condition
Context	**configure** port *port* otu sd-threshold *number*
Tree	sd-threshold
Range	5 to 9
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

section-monitoring

Synopsis	Enter the **section-monitoring** context
Context	**configure** port *port* otu section-monitoring
Tree	section-monitoring
Introduced	25.3.R2
Platforms	SAR Gen 2

trail-trace-identifier

Synopsis	Enter the **trail-trace-identifier** context
Context	**configure** port *port* otu section-monitoring trail-trace-identifier
Tree	trail-trace-identifier

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Introduced	25.3.R2
Platforms	SAR Gen 2

expected

Synopsis	Enter the **expected** context
Context	**configure** port *port* otu section-monitoring trail-trace-identifier expected
Tree	expected
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-generated

Synopsis	Use the system generated TTI
Context	**configure** port *port* otu section-monitoring trail-trace-identifier expected auto-generated
Tree	auto-generated
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bytes *string*

Synopsis	TTI as a sequence of bytes
Context	**configure** port *port* otu section-monitoring trail-trace-identifier expected bytes *string*
Tree	bytes
String length	0 to 192
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	TTI as a sequence of printable ASCII
Context	**configure** port *port* otu section-monitoring trail-trace-identifier expected string *string*
Tree	string

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String length	0 to 64
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mismatch-reaction *keyword*

Synopsis	Reaction to a mismatched TTI
Context	**configure** port *port* otu section-monitoring trail-trace-identifier mismatch-reaction *keyword*
Tree	mismatch-reaction
Options	squelch-rx
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit

Synopsis	Enter the **transmit** context
Context	**configure** port *port* otu section-monitoring trail-trace-identifier transmit
Tree	transmit
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-generated

Synopsis	Use the system generated TTI
Context	**configure** port *port* otu section-monitoring trail-trace-identifier transmit auto-generated
Tree	auto-generated
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bytes *string*

Synopsis	TTI as a sequence of bytes

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Context	**configure** port *port* otu section-monitoring trail-trace-identifier transmit bytes *string*
Tree	bytes
String length	0 to 192
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	TTI as a sequence of printable ASCII
Context	**configure** port *port* otu section-monitoring trail-trace-identifier transmit string *string*
Tree	string
String length	0 to 64
Notes	The following elements are part of a choice: **auto-generated**, **bytes**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sf-sd-method *keyword*

Synopsis	Method used to determine the SF and SD alarms
Context	**configure** port *port* otu sf-sd-method *keyword*
Tree	sf-sd-method
Options	fec, bip8
Default	fec
Introduced	25.3.R2
Platforms	SAR Gen 2

sf-threshold *number*

Synopsis	Error rate at which to declare signal fail condition
Context	**configure** port *port* otu sf-threshold *number*
Tree	sf-threshold
Range	3 to 6
Default	5

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Introduced	25.3.R2
Platforms	SAR Gen 2

serial

Synopsis	Enter the **serial** context
Context	**configure** port *port* serial
Tree	serial
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rs232

Synopsis	Enable the **rs232** context
Context	**configure** port *port* serial rs232
Tree	rs232
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administratively enable/disable the RS-232 port.
Context	**configure** port *port* serial rs232 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

channel-group [ds0-index] *number*

Synopsis	Enter the **channel-group** list instance
Context	**configure** port *port* serial rs232 channel-group *number*
Tree	channel-group
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ds0-index**] *number*

Synopsis	Specifies the DS0 channel group.
Context	**configure** port *port* serial rs232 channel-group *number*
Tree	channel-group
Range	1
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administratively enable/disable the RS232 channel group.
Context	**configure** port *port* serial rs232 channel-group *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *long-description*

Synopsis	Add/remove a text description.
Context	**configure** port *port* serial rs232 channel-group *number* description *long-description*
Tree	description
String length	1 to 160
Default	DS0GRP
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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character-length *number*

Synopsis	Number of data bits used to transmit a character.
Context	**configure** port *port* serial rs232 character-length *number*
Tree	character-length
Range	6 to 8
Default	8
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

control-lead

Synopsis	Enter the **control-lead** context
Context	**configure** port *port* serial rs232 control-lead
Tree	control-lead
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

input

Synopsis	Enter the **input** context
Context	**configure** port *port* serial rs232 control-lead input
Tree	input
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

dts-dsr *keyword*

Synopsis	Data Terminal Ready (DTR) or Data Set Ready (DSR) input control lead.
Context	**configure** port *port* serial rs232 control-lead input dts-dsr *keyword*
Tree	dts-dsr
Options	high, low
Default	high
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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rts-dcd *keyword*

Synopsis	Request To Send (RTS) or Data Carrier Detect (DCD) input control lead.
Context	**configure** port *port* serial rs232 control-lead input rts-dcd *keyword*
Tree	rts-dcd
Options	high, low, end-to-end
Default	high
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

monitor

Synopsis	Enter the **monitor** context
Context	**configure** port *port* serial rs232 control-lead monitor
Tree	monitor
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

dts-dsr *keyword*

Synopsis	Data Terminal Ready (DTR) or Data Set Ready (DSR) input control lead monitoring.
Context	**configure** port *port* serial rs232 control-lead monitor dts-dsr *keyword*
Tree	dts-dsr
Options	on, off
Default	off
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rts-dcd *keyword*

Synopsis	Request To Send (RTS) or Data Carrier Detect (DCD) input control lead monitoring.
Context	**configure** port *port* serial rs232 control-lead monitor rts-dcd *keyword*
Tree	rts-dcd
Options	on, off
Default	off

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

output

Synopsis	Enter the **output** context
Context	**configure** port *port* serial rs232 control-lead output
Tree	output
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

cts-alb *keyword*

Synopsis	Clear To Send (CTS) or Analog Loopback (ALB) output control lead.
Context	**configure** port *port* serial rs232 control-lead output cts-alb *keyword*
Tree	cts-alb
Options	high, low, end-to-end
Default	high
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

dcd-rts *keyword*

Synopsis	Data Carrier Detect (DCD) or Request To Send (RTS) output control lead.
Context	**configure** port *port* serial rs232 control-lead output dcd-rts *keyword*
Tree	dcd-rts
Options	high, low, end-to-end
Default	high
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ri-rdl *keyword*

Synopsis	Ring Indicator (RI) or Remote Digital Loopback (RDL) output control lead.
Context	**configure** port *port* serial rs232 control-lead output ri-rdl *keyword*

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Tree	ri-rdl
Options	high, low
Default	high
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

data-position *keyword*

Synopsis	HCM data start position.
Context	**configure** port *port* serial rs232 data-position *keyword*
Tree	data-position
Options	f0-b5, f0-b6, none
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** port *port* serial rs232 hold-time
Tree	hold-time
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

down *number*

Synopsis	Hold timer for link down event dampening.
Context	**configure** port *port* serial rs232 hold-time down *number*
Tree	down
Range	0 to 100
Units	deciseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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up *number*

Synopsis	Hold timer for link up event dampening.
Context	**configure** port *port* serial rs232 hold-time up *number*
Tree	up
Range	0 to 100
Units	deciseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

loopback *keyword*

Synopsis	Activate a loopback on the serial port.
Context	**configure** port *port* serial rs232 loopback *keyword*
Tree	loopback
Options	none, bidir-e
Default	none
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mon-data-inactivity

Synopsis	Enter the **mon-data-inactivity** context
Context	**configure** port *port* serial rs232 mon-data-inactivity
Tree	mon-data-inactivity
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clear *number*

Synopsis	Debounce timer for clearing data inactivity monitoring.
Context	**configure** port *port* serial rs232 mon-data-inactivity clear *number*
Tree	clear
Range	10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100

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Units	seconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

raise *number*

Synopsis	Debounce timer for raising data inactivity monitoring.
Context	**configure** port *port* serial rs232 mon-data-inactivity raise *number*
Tree	raise
Range	10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100
Units	seconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

parity *keyword*

Synopsis	The parity bit in a character.
Context	**configure** port *port* serial rs232 parity *keyword*
Tree	parity
Options	none, odd, even, mark, space
Default	none
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* serial rs232 report-alarm
Tree	report-alarm
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ctrl-lead-mon *boolean*

Synopsis	Enable/disable control lead monitoring alarm.

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Context	**configure** port *port* serial rs232 report-alarm ctrl-lead-mon *boolean*
Tree	ctrl-lead-mon
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hcm-oof *boolean*

Synopsis	Enable/disable local HCM oof alarm.
Context	**configure** port *port* serial rs232 report-alarm hcm-oof *boolean*
Tree	hcm-oof
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hcm-rai *boolean*

Synopsis	Enable/disable remote HCM rai alarm.
Context	**configure** port *port* serial rs232 report-alarm hcm-rai *boolean*
Tree	hcm-rai
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mon-data-inact *boolean*

Synopsis	Enable/disable data inactivity monitoring alarm.
Context	**configure** port *port* serial rs232 report-alarm mon-data-inact *boolean*
Tree	mon-data-inact
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

s-bit-signaling *boolean*

Synopsis	S-bit signaling mode.
Context	**configure** port *port* serial rs232 s-bit-signaling *boolean*
Tree	s-bit-signaling
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

socket [socket-id] *number*

Synopsis	Enter the **socket** list instance
Context	**configure** port *port* serial rs232 socket *number*
Tree	socket
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**socket-id**] *number*

Synopsis	The socket identifier.
Context	**configure** port *port* serial rs232 socket *number*
Tree	socket
Range	1
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administratively enable/disable the RS-232 socket.
Context	**configure** port *port* serial rs232 socket *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *long-description*

Synopsis	Add/remove a text description.
Context	**configure** port *port* serial rs232 socket *number* description *long-description*
Tree	description

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String length	1 to 160
Default	SOCKET
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rx

Synopsis	Enter the **rx** context
Context	**configure** port *port* serial rs232 socket *number* rx
Tree	rx
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

eop

Synopsis	Enter the **eop** context
Context	**configure** port *port* serial rs232 socket *number* rx eop
Tree	eop
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

idle-timeout *number*

Synopsis	The maximum period of idle time before triggering EOP.
Context	**configure** port *port* serial rs232 socket *number* rx eop idle-timeout *number*
Tree	idle-timeout
Range	10 to 5000
Units	milliseconds
Default	50
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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length *number*

Synopsis	The maximum number of received bytes before triggering EOP.
Context	**configure** port *port* serial rs232 socket *number* rx eop length *number*
Tree	length
Range	1 to 1500
Units	bytes
Default	1500
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

special-char *string*

Synopsis	A special character value used to trigger EOP.
Context	**configure** port *port* serial rs232 socket *number* rx eop special-char *string*
Tree	special-char
String length	3 to 4
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

squelch-delay *number*

Synopsis	The delay before squelch is automatically applied.
Context	**configure** port *port* serial rs232 socket *number* rx squelch-delay *number*
Tree	squelch-delay
Range	1 to 120
Units	seconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

unsquelch-delay *number*

Synopsis	The delay before squelch is automatically cleared.
Context	**configure** port *port* serial rs232 socket *number* rx unsquelch-delay *number*
Tree	unsquelch-delay

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Range	1 to 120
Units	seconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tx

Synopsis	Enter the **tx** context
Context	**configure** port *port* serial rs232 socket *number* tx
Tree	tx
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

inter-session-delay *number*

Synopsis	The delay between sessions.
Context	**configure** port *port* serial rs232 socket *number* tx inter-session-delay *number*
Tree	inter-session-delay
Range	0 to 5000
Units	milliseconds
Default	10
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

speed *number*

Synopsis	The speed of the serial interface.
Context	**configure** port *port* serial rs232 speed *number*
Tree	speed
Range	600 | 1200 | 2400 | 4800 | 9600 | 19200 | 38400 | 57600 | 115200
Default	9600
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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stop-bits *number*

Synopsis	Number of stop bits on the serial interface.
Context	**configure** port *port* serial rs232 stop-bits *number*
Tree	stop-bits
Range	1 to 2
Default	1
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tdm

Synopsis	Enter the **tdm** context
Context	**configure** port *port* tdm
Tree	tdm
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ds1 [ds1-index] *tdm-ds1-index*

Synopsis	Enter the **ds1** list instance
Context	**configure** port *port* tdm ds1 *tdm-ds1-index*
Tree	ds1
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ds1-index**] *tdm-ds1-index*

Synopsis	DS-1 channel ID
Context	**configure** port *port* tdm ds1 *tdm-ds1-index*
Tree	ds1
MD-CLI default	physical
Notes	This element is part of a list key.
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the DS1 channel
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

channel-group [ds0-index] *number*

Synopsis	Enter the **channel-group** list instance
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number*
Tree	channel-group
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ds0-index**] *number*

Synopsis	Channel group ID
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number*
Tree	channel-group
Range	1 to 24
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the DS1 channel group
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *long-description*

Synopsis	Text description
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* description *long-description*
Tree	description
String length	1 to 160
Default	DS0GRP
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

encap-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Encapsulation method
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* encap-type *keyword*
Tree	encap-type
Options	cem
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

idle-payload-fill

Synopsis	Enter the **idle-payload-fill** context
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* idle-payload-fill
Tree	idle-payload-fill

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Description	Commands in this context configure the data pattern to be transmitted when the circuit emulation service is not operational or temporarily experiences under-run conditions. This command is only valid for CESoPSN and CESoPSN CAS circuit emulation services. It is blocked with a warning for unstructured (SATOP) circuit emulation services.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

all-ones

Synopsis	Transmit 8-bit value to be 11111111
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* idle-payload-fill all-ones
Tree	all-ones
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

pattern *number*

Synopsis	User-defined pattern to be transmitted
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* idle-payload-fill pattern *number*
Tree	pattern
Range	0 to 255
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

idle-signal-fill

Synopsis	Enter the **idle-signal-fill** context
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* idle-signal-fill
Tree	idle-signal-fill
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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all-ones

Synopsis	Transmit 8-bit value as 11111111
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* idle-signal-fill all-ones
Tree	all-ones
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

pattern *number*

Synopsis	User-defined pattern to be transmitted
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* idle-signal-fill pattern *number*
Tree	pattern
Range	0 to 15
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

loopback *keyword*

Synopsis	Loopback on the channel group
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* loopback *keyword*
Tree	loopback
Options	line, internal
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mode *keyword*

WARNING:
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Synopsis	Operation mode for the TDM channel group
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* mode *keyword*
Tree	mode
Options	access, network
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

network

Synopsis	Enter the **network** context
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* network
Tree	network
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* network accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* network collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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queue-policy *reference*

Synopsis	Queue policy on the TDM DS0 network channel group
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* network queue-policy *reference*
Tree	queue-policy
Reference	**configure** qos network-queue *named-item*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

timeslot *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Timeslot for the channel group
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* channel-group *number* timeslot *number*
Tree	timeslot
Range	1 to 24
Max. instances	24
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clock-source *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Clock source for data transmission
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* clock-source *keyword*
Tree	clock-source
Description	This command specifies the clock source to use for the link transmit timing. The options are to use the locally recovered clock from the line's receive data stream, the node central reference, or an adaptively recovered clock using the received packets.
Options	loop-timed, node-timed, adaptive, differential

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

framing *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Framing for the DS1 channel
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* framing *keyword*
Tree	framing
Options	extended-super-frame, super-frame, ds1-unframed
Default	extended-super-frame
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* hold-time
Tree	hold-time
Description	Commands in this context configure link dampening timers in 100s of milliseconds. This guards against reporting excessive interface transitions. This is implemented by not advertising subsequent transitions of the interface to upper layer protocols until the configured timer has expired.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

down *number*

Synopsis	Hold timer for link down event dampening on channels
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* hold-time down *number*
Tree	down
Description	This command configures the DS1/E1 down link dampening timer, which guards against reporting excessive interface transitions. Subsequent transitions of the interface from

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	one state to another are not advertised to upper layer protocols until the configured timer expires.
Range	0 to 100
Units	deciseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

up *number*

Synopsis	Hold timer for link up event dampening on channels
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* hold-time up *number*
Tree	up
Description	This command configures the DS1/E1 up link dampening timer, which guards against reporting excessive interface transitions. Subsequent transitions of the interface from one state to another are not advertised to upper layer protocols until the configured timer expires.
Range	0 to 100
Units	deciseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

loopback *keyword*

Synopsis	Loopback mode for the port
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* loopback *keyword*
Tree	loopback
Options	line, internal, fdl-ansi, fdl-bellcore, payload-ansi, inband-ansi, inband-bellcore
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* report-alarm

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Tree	report-alarm
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ais *boolean*

Synopsis	Report alarm indication signal errors
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* report-alarm ais *boolean*
Tree	ais
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

los *boolean*

Synopsis	Report loss of signal errors
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* report-alarm los *boolean*
Tree	los
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

oof *boolean*

Synopsis	Report out-of-frame errors
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* report-alarm oof *boolean*
Tree	oof
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rai *boolean*

Synopsis	Report resource availability indicator events
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* report-alarm rai *boolean*

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Tree	rai
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

signal-mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Signal mode on the channel
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* signal-mode *keyword*
Tree	signal-mode
Description	This command configures the signal mode on the channel. When enabled, it uses routing information to direct the payload of voice or data to its destination.
Options	channel-associated-signaling
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ssm

Synopsis	Enter the **ssm** context
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* ssm
Tree	ssm
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Enable/disable SSM.
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* ssm admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tx-dus *boolean*

Synopsis	Enable/disable always transmitting 0xF (dus/dnu) in SSM messaging channel.
Context	**configure** port *port* tdm ds1 *tdm-ds1-index* ssm tx-dus *boolean*
Tree	tx-dus
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

e1 [e1-index] *tdm-e1-index*

Synopsis	Enter the **e1** list instance
Context	**configure** port *port* tdm e1 *tdm-e1-index*
Tree	e1
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**e1-index**] *tdm-e1-index*

Synopsis	E-1 channel
Context	**configure** port *port* tdm e1 *tdm-e1-index*
Tree	e1
MD-CLI default	physical
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the E1 channel
Context	**configure** port *port* tdm e1 *tdm-e1-index* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

channel-group [ds0-index] *number*

Synopsis	Enter the **channel-group** list instance
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number*
Tree	channel-group
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ds0-index**] *number*

Synopsis	DS0 channel group in a channelized DS1 or E1 circuit
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number*
Tree	channel-group
Range	1 to 32
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the E1 channel group
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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description *long-description*

Synopsis	Text description
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* description *long-description*
Tree	description
String length	1 to 160
Default	DS0GRP
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

encap-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Encapsulation method used on a port, path, or channel
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* encap-type *keyword*
Tree	encap-type
Options	cem
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

idle-payload-fill

Synopsis	Enter the **idle-payload-fill** context
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* idle-payload-fill
Tree	idle-payload-fill
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

all-ones

Synopsis	Transmit 8-bit value to be 11111111

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Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* idle-payload-fill all-ones
Tree	all-ones
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

pattern *number*

Synopsis	User-defined pattern to be transmitted
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* idle-payload-fill pattern *number*
Tree	pattern
Range	0 to 255
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

idle-signal-fill

Synopsis	Enter the **idle-signal-fill** context
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* idle-signal-fill
Tree	idle-signal-fill
Description	Commands in this context configure the signaling pattern to be transmitted when the circuit emulation service is not operational or temporarily experiences under-run conditions. This command is only valid for CESoPSN-CAS circuit emulation services. It is blocked with a warning for unstructured (SATOP) and basic CESoPSN circuit emulation services.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

all-ones

Synopsis	Transmit 8-bit value as 11111111
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* idle-signal-fill all-ones
Tree	all-ones
Notes	The following elements are part of a choice: **all-ones** or **pattern**.

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

pattern *number*

Synopsis	User-defined pattern to be transmitted
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* idle-signal-fill pattern *number*
Tree	pattern
Range	0 to 15
Notes	The following elements are part of a choice: **all-ones** or **pattern**.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

loopback *keyword*

Synopsis	Loopback mode on the channel group
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* loopback *keyword*
Tree	loopback
Description	This command configures the specified port or channel in a loopback mode.
Options	line, internal
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Operation mode
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* mode *keyword*
Tree	mode
Options	access, network
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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network

Synopsis	Enter the **network** context
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* network
Tree	network
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* network accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

collect-stats *boolean*

Synopsis	Collect accounting and statistical data
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* network collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

queue-policy *reference*

Synopsis	Network queue policy on TDM E0 network channel group
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* network queue-policy *reference*
Tree	queue-policy
Reference	**configure** qos network-queue *named-item*
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

timeslot *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Timeslot list for the channel group
Context	**configure** port *port* tdm e1 *tdm-e1-index* channel-group *number* timeslot *number*
Tree	timeslot
Description	This command configures the list of timeslots to be used in a channel group. For the list of DS-0 timeslots to be used in the DS-1 or E1 channel-group, the timeslots are defaulted as defined by the encapsulation type. ATM channel groups do not allow timeslots to change.
Range	1 to 32
Max. instances	32
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clock-source *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Clock source for data transmission
Context	**configure** port *port* tdm e1 *tdm-e1-index* clock-source *keyword*
Tree	clock-source
Description	This command specifies the clock source to use for the link transmit timing. The options are to use the locally recovered clock from the line's receive data stream, the node central reference, or an adaptively recovered clock using the received packets.
Options	loop-timed, node-timed, adaptive, differential
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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framing *keyword*

WARNING:
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Synopsis	Framing on the E1 channel
Context	**configure** port *port* tdm e1 *tdm-e1-index* framing *keyword*
Tree	framing
Description	This command specifies the E1 framing to use with the associated channel.
Options	no-crc-g704, g704, e1-unframed
Default	g704
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** port *port* tdm e1 *tdm-e1-index* hold-time
Tree	hold-time
Description	Commands in this context configure link dampening timers in 100s of milliseconds. This guards against reporting excessive interface transitions. This is implemented by not advertising subsequent transitions of the interface to upper layer protocols until the configured timer has expired.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

down *number*

Synopsis	Hold timer for link down event dampening on channels
Context	**configure** port *port* tdm e1 *tdm-e1-index* hold-time down *number*
Tree	down
Description	This command configures the DS1/E1 down link dampening timer, which guards against reporting excessive interface transitions. Subsequent transitions of the interface from one state to another are not advertised to upper layer protocols until the configured timer expires.
Range	0 to 100

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Units	deciseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

up *number*

Synopsis	Hold timer for link up event dampening on channels
Context	**configure** port *port* tdm e1 *tdm-e1-index* hold-time up *number*
Tree	up
Description	This command configures the DS1/E1 up link dampening timer, which guards against reporting excessive interface transitions. Subsequent transitions of the interface from one state to another are not advertised to upper layer protocols until the configured timer expires.
Range	0 to 100
Units	deciseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

loopback *keyword*

Synopsis	Loopback mode
Context	**configure** port *port* tdm e1 *tdm-e1-index* loopback *keyword*
Tree	loopback
Options	line, internal
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* tdm e1 *tdm-e1-index* report-alarm
Tree	report-alarm
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

ais *boolean*

Synopsis	Report alarm indication signal errors
Context	**configure** port *port* tdm e1 *tdm-e1-index* report-alarm ais *boolean*
Tree	ais
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

los *boolean*

Synopsis	Report loss of signal errors
Context	**configure** port *port* tdm e1 *tdm-e1-index* report-alarm los *boolean*
Tree	los
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

oof *boolean*

Synopsis	Report out-of-frame errors
Context	**configure** port *port* tdm e1 *tdm-e1-index* report-alarm oof *boolean*
Tree	oof
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rai *boolean*

Synopsis	Report resource availability indicator events
Context	**configure** port *port* tdm e1 *tdm-e1-index* report-alarm rai *boolean*
Tree	rai
Default	false

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

signal-mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Signal mode on the channel
Context	**configure** port *port* tdm e1 *tdm-e1-index* signal-mode *keyword*
Tree	signal-mode
Description	This command configures the signal mode on the channel. When enabled, it uses routing information to direct the payload of voice or data to its destination.
Options	channel-associated-signaling
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ssm

Synopsis	Enter the **ssm** context
Context	**configure** port *port* tdm e1 *tdm-e1-index* ssm
Tree	ssm
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Enable/disable SSM.
Context	**configure** port *port* tdm e1 *tdm-e1-index* ssm admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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ssm-bit *number*

Synopsis	The sa-bit to use for conveying SSM information
Context	**configure** port *port* tdm e1 *tdm-e1-index* ssm ssm-bit *number*
Tree	ssm-bit
Range	4 to 8
Default	8
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tx-dus *boolean*

Synopsis	Enable/disable always transmitting 0xF (dus/dnu) in SSM messaging channel.
Context	**configure** port *port* tdm e1 *tdm-e1-index* ssm tx-dus *boolean*
Tree	tx-dus
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

encoding *keyword*

Synopsis	Encoding for the physical DS1/E1 port
Context	**configure** port *port* tdm encoding *keyword*
Tree	encoding
Description	This command configures the encoding for the physical DS1 or E1 port. Use **b8zs** to specify that B8ZS (bipolar with eight-zero substitution) zero code suppression is used on the port (supported only on a DS1 port). Use **ami** to specify that AMI (alternate mark inversion) is used on the port (supported only on a DS1 port). Use **hdb3** to specify that HDB3 (high-density bipolar of order 3) is used on the port (supported only on an E1 port).
Options	b8zs, ami, hdb3
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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length *number*

Synopsis	Cable length for short buildout on a physical DS1 port
Context	**configure** port *port* tdm length *number*
Tree	length
Range	133 | 266 | 399 | 533 | 655
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

line-impedance *number*

Synopsis	Line impedance for the physical DS1/E1 port
Context	**configure** port *port* tdm line-impedance *number*
Tree	line-impedance
Description	This command configures the line impedance of a port. Line impedance is set on a per-port basis, and ports on the same card can have different values. Before changing the line impedance of a port, the port must be shut down. DS1 ports support only 100 ohms. E1 ports support 75 and 120 ohms.
Range	75 | 100 | 120
Units	ohms
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tpif

Synopsis	Enable the **tpif** context
Context	**configure** port *port* tdm tpif
Tree	tpif
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administratively enable/disable the TPIF channel group.
Context	**configure** port *port* tdm tpif admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

channel-group [ds0-index] *number*

Synopsis	Enter the **channel-group** list instance
Context	**configure** port *port* tdm tpif channel-group *number*
Tree	channel-group
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ds0-index**] *number*

Synopsis	Specifies the DS0 channel group.
Context	**configure** port *port* tdm tpif channel-group *number*
Tree	channel-group
Range	1
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administratively enable/disable the TPIF channel group.
Context	**configure** port *port* tdm tpif channel-group *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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description *long-description*

Synopsis	Add/remove a text description.
Context	**configure** port *port* tdm tpif channel-group *number* description *long-description*
Tree	description
String length	1 to 160
Default	DS0GRP
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

timeslot *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Configure timeslot for this channel group.
Context	**configure** port *port* tdm tpif channel-group *number* timeslot *number*
Tree	timeslot
Range	1 to 12
Max. instances	12
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

loopback *keyword*

Synopsis	Activate a loopback on the channel.
Context	**configure** port *port* tdm tpif loopback *keyword*
Tree	loopback
Options	internal, line
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** port *port* tdm tpif report-alarm
Tree	report-alarm
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

los *boolean*

Synopsis	Enable/disable los alarm.
Context	**configure** port *port* tdm tpif report-alarm los *boolean*
Tree	los
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

rai *boolean*

Synopsis	Enable/disable rai alarm.
Context	**configure** port *port* tdm tpif report-alarm rai *boolean*
Tree	rai
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

transceiver

Synopsis	Enter the **transceiver** context
Context	**configure** port *port* transceiver
Tree	transceiver
Introduced	25.3.R2
Platforms	SAR Gen 2

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digital-coherent-optics *boolean*

Synopsis	Enable digital coherent optics module for transceiver
Context	**configure** port *port* transceiver digital-coherent-optics *boolean*
Tree	digital-coherent-optics
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

optical-line-system

Synopsis	Enable the **optical-line-system** context
Context	**configure** port *port* transceiver optical-line-system
Tree	optical-line-system
Description	Commands in this context configure the QSFP-LS pluggable optical line system, used in conjunction with 400G ZR/ZR+ coherent pluggable modules.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-amplifier-gain *decimal-number*

Synopsis	Gain for the egress amplifier
Context	**configure** port *port* transceiver optical-line-system egress-amplifier-gain *decimal-number*
Tree	egress-amplifier-gain
Range	0.00 to 25.00
Units	decibels
Default	25.00
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.20 port-xc commands

```
configure
   –  port-xc
      –  apply-groups reference
      –  apply-groups-exclude reference
      –  pxc number
         –  admin-state keyword
         –  apply-groups reference
         –  apply-groups-exclude reference
         –  description description
         –  port-id reference
```


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4.20.1 port-xc command descriptions

port-xc

Synopsis	Enter the **port-xc** context
Context	**configure** port-xc
Tree	port-xc
Description	Commands in this context configure port cross-connect (PXC) functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

pxc [pxc-id] *number*

Synopsis	Enter the **pxc** list instance
Context	**configure** port-xc pxc *number*
Tree	pxc
Description	Commands in this context configure port cross-connect (PXC) information.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pxc-id**] *number*

Synopsis	PXC ID
Context	**configure** port-xc pxc *number*
Tree	pxc
Range	1 to 256
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the PXC
Context	**configure** port-xc pxc *number* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** port-xc pxc *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	PXC port ID
Context	**configure** port-xc pxc *number* port-id *reference*
Tree	port-id
Reference	**configure** port *port*
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.21 python commands

```
configure
   –  python
      –  apply-groups reference
      –  apply-groups-exclude reference
      –  python-script named-item
         –  action-on-fail keyword
         –  admin-state keyword
         –  apply-groups reference
         –  apply-groups-exclude reference
         –  description description
         –  protection
            –  hmac-sha256 encrypted-leaf
         –  run-as-user named-item
         –  urls url
         –  version keyword
```


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4.21.1 python command descriptions

python

Synopsis	Enter the **python** context
Context	**configure** python
Tree	python
Introduced	25.3.R2
Platforms	SAR Gen 2

python-script [name] *named-item*

Synopsis	Enter the **python-script** list instance
Context	**configure** python python-script *named-item*
Tree	python-script
Description	Commands in this context configure Python scripts to modify messages of different protocols.
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Python script policy name
Context	**configure** python python-script *named-item*
Tree	python-script
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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action-on-fail *keyword*

Synopsis	Action taken when the Python execution fails
Context	**configure** python python-script *named-item* action-on-fail *keyword*
Tree	action-on-fail
Options	passthrough, drop
Default	drop
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Python script
Context	**configure** python python-script *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** python python-script *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

protection

Synopsis	Enter the **protection** context
Context	**configure** python python-script *named-item* protection
Tree	protection

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Description	Commands in this context configure the format of the Python script file or files in this Python script. Unintentional changing of Python script file can be prevented by using the protected format.
Introduced	25.3.R2
Platforms	SAR Gen 2

hmac-sha256 *encrypted-leaf*

Synopsis	Hash value to include as first line in Python script
Context	**configure** python python-script *named-item* protection hmac-sha256 *encrypted-leaf*
Tree	hmac-sha256
String length	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

run-as-user *named-item*

Synopsis	Local user authenticated for scripts
Context	**configure** python python-script *named-item* run-as-user *named-item*
Tree	run-as-user
Description	This command configures a user that is different from the current user of the session. Script authentication, authorization, accounting, and any activity within the script, is run as the specified user. This user must be locally configured and script authorization will use the user's local AAA profile even if remote authorization is configured. If this command is not configured, the current user of the session is used.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

urls *url*

Synopsis	Script location in URL format
Context	**configure** python python-script *named-item* urls *url*
Tree	urls

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String length	1 to 180
Max. instances	3
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Python version the script is written for
Context	**configure** python python-script *named-item* version *keyword*
Tree	version
Options	python2, python3
Default	python2
Introduced	26.7.R1
Platforms	SAR Gen 2

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4.22 qos commands

```
configure
   - qos
      - apply-groups reference
      - apply-groups-exclude reference
      - match-list
         - ip-prefix-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - prefix ipv4-prefix
         - ipv6-prefix-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - prefix ipv6-prefix
      - md-auto-id
         - qos-policy-id-range
            - apply-groups reference
            - apply-groups-exclude reference
            - end number
            - start number
      - network network-policy-name
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - egress
            - dscp keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - fc keyword
               - profile keyword
            - fc keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - de-mark
                  - force number
               - dot1p-in-profile number
               - dot1p-out-profile number
               - dscp-in-profile keyword
               - dscp-out-profile keyword
               - lsp-exp-in-profile number
               - lsp-exp-out-profile number
               - port-redirect-group
                  - policer number
                  - queue number
            - ip-criteria
               - entry number
                  - action
                     - fc keyword
                     - port-redirect-group
                        - policer number
                        - queue number
                     - profile keyword
                     - type keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - match
                     - dscp keyword
```


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```
                  - dst-ip
                     - address (ipv4-prefix-with-host-bits | ipv4-address)
                     - mask ipv4-address
                  - dst-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
                  - fragment keyword
                  - icmp-type number
                  - protocol (number | keyword)
                  - src-ip
                     - address (ipv4-prefix-with-host-bits | ipv4-address)
                     - mask ipv4-address
                  - src-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
            - ipv6-criteria
               - entry number
                  - action
                     - fc keyword
                     - port-redirect-group
                        - policer number
                        - queue number
                     - profile keyword
                     - type keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - match
                     - dscp keyword
                     - dst-ip
                        - address (ipv6-prefix-with-host-bits | ipv6-address)
                        - mask ipv6-address
                     - dst-port
                        - eq number
                        - gt number
                        - lt number
                        - range
                           - end number
                           - start number
                     - fragment keyword
                     - icmp-type number
                     - next-header (number | keyword)
                     - src-ip
                        - address (ipv6-prefix-with-host-bits | ipv6-address)
                        - mask ipv6-address
                     - src-port
                        - eq number
                        - gt number
                        - lt number
                        - range
                           - end number
                           - start number
            - prec number
               - apply-groups reference
               - apply-groups-exclude reference
               - fc keyword
```


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```
            - profile keyword
         - remark-trusted
            - force-egress-marking boolean
      - ingress
         - default-action
            - fc keyword
            - profile keyword
         - dot1p number
            - apply-groups reference
            - apply-groups-exclude reference
            - fc keyword
            - profile keyword
         - dscp keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - fc keyword
            - profile keyword
         - fc keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - fp-redirect-group
               - broadcast-policer number
               - multicast-policer number
               - policer number
               - unknown-policer number
         - ip-criteria
            - entry number
               - action
                  - fc keyword
                  - profile keyword
                  - type keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - match
                  - dscp keyword
                  - dst-ip
                     - address (ipv4-prefix-with-host-bits | ipv4-address)
                     - ip-prefix-list reference
                     - mask ipv4-address
                  - dst-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
                  - fragment keyword
                  - protocol (number | keyword)
                  - src-ip
                     - address (ipv4-prefix-with-host-bits | ipv4-address)
                     - ip-prefix-list reference
                     - mask ipv4-address
                  - src-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
         - ipv6-criteria
            - entry number
               - action
                  - fc keyword
```


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```
                  - profile keyword
                  - type keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - match
                  - dscp keyword
                  - dst-ip
                     - address (ipv6-prefix-with-host-bits | ipv6-address)
                     - ipv6-prefix-list reference
                     - mask ipv6-address
                  - dst-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
                  - fragment keyword
                  - next-header (number | keyword)
                  - src-ip
                     - address (ipv6-prefix-with-host-bits | ipv6-address)
                     - ipv6-prefix-list reference
                     - mask ipv6-address
                  - src-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
            - ler-use-dscp boolean
            - lsp-exp number
               - apply-groups reference
               - apply-groups-exclude reference
               - fc keyword
               - profile keyword
         - policy-id number
         - scope keyword
      - network-queue named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - fc keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - multicast-queue reference
            - queue reference
         - queue number
            - apply-groups reference
            - apply-groups-exclude reference
            - avg-frame-overhead decimal-number
            - cbs decimal-number
            - drop-tail
               - low
                  - percent-reduction-from-mbs (number | keyword)
            - mbs decimal-number
            - multipoint boolean
            - port-parent
               - cir-level number
               - cir-weight number
               - level number
               - weight number
            - queue-type keyword
```


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configure qos network-queue queue rate

```
            - rate
               - cir number
               - pir number
      - policer-control-policy named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - root
            - max-percent-rate decimal-number
            - max-rate (number | keyword)
            - priority-mbs-thresholds
               - min-thresh-separation (number | keyword)
               - priority number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - fixed-mbs boolean
                  - mbs-contribution (number | keyword)
            - profile-preferred boolean
         - tier number
            - apply-groups reference
            - apply-groups-exclude reference
            - arbiter named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - arbiter-parent
                  - arbiter-name named-item
                  - level number
                  - weight number
               - description description
               - percent-rate decimal-number
               - rate (number | keyword)
               - reference-rate keyword
      - port-scheduler-policy named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - level number
            - apply-groups reference
            - apply-groups-exclude reference
            - monitor-threshold number
            - rate
               - cir (number | keyword)
               - pir (number | keyword)
            - weight number
         - max-rate (number | keyword)
         - monitor-threshold number
         - orphan-overrides
            - cir-level number
            - cir-weight number
            - level number
            - weight number
      - pre-classifier-policy named-item-64
         - apply-groups reference
         - apply-groups-exclude reference
         - default-policer-id number
         - description description
         - policer number
            - apply-groups reference
            - apply-groups-exclude reference
            - dot1p number
            - mbs number
            - pir number
      - queue-group-templates
         - apply-groups reference
```


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configure qos queue-group-templates apply-groups-exclude

```
        - apply-groups-exclude reference
        - egress
            - apply-groups reference
            - apply-groups-exclude reference
            - queue-group named-item
                - apply-groups reference
                - apply-groups-exclude reference
                - description description-or-empty
                - fc keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - queue
                        - none
                        - queue-id reference
                - policer number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - arbiter-parent
                        - arbiter-name named-item
                        - level number
                        - weight number
                    - cbs (number | keyword)
                    - description description
                    - exceed-pir boolean
                    - high-prio-only (number | keyword)
                    - mbs (number | keyword)
                    - packet-byte-offset number
                    - percent-rate
                        - cir decimal-number
                        - pir decimal-number
                        - reference-rate keyword
                    - profile-capped boolean
                    - rate
                        - cir (number | keyword)
                        - pir (number | keyword)
                    - stat-mode keyword
                - queue number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - burst-limit (number | keyword)
                    - cbs (number | keyword)
                    - drop-tail
                        - exceed
                            - percent-reduction-from-mbs (number | keyword)
                        - high
                            - percent-reduction-from-mbs (number | keyword)
                        - highplus
                            - percent-reduction-from-mbs (number | keyword)
                        - low
                            - percent-reduction-from-mbs (number | keyword)
                    - dynamic-mbs boolean
                    - mbs (number | keyword)
                    - packet-byte-offset number
                    - percent-rate
                        - cir decimal-number
                        - pir decimal-number
                        - reference-rate keyword
                    - port-parent
                        - cir-level number
                        - cir-weight number
                        - level number
                        - weight number
                    - queue-delay number
                    - queue-type keyword
```


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configure qos queue-group-templates egress queue-group queue rate

```
                - rate
                  - cir (number | keyword)
                  - pir (number | keyword)
                - scheduler-parent
                  - cir-level number
                  - cir-weight number
                  - level number
                  - scheduler-name named-item
                  - weight number
                - wred-queue
                  - mode keyword
                  - usage keyword
        - ingress
          - apply-groups reference
          - apply-groups-exclude reference
          - queue-group named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - policer number
              - adaptation-rule
                - cir keyword
                - pir keyword
              - apply-groups reference
              - apply-groups-exclude reference
              - arbiter-parent
                - arbiter-name named-item
                - level number
                - weight number
              - cbs (number | keyword)
              - description description
              - high-prio-only (number | keyword)
              - mbs (number | keyword)
              - packet-byte-offset number
              - percent-rate
                - cir decimal-number
                - pir decimal-number
              - profile-capped boolean
              - rate
                - cir (number | keyword)
                - pir (number | keyword)
              - stat-mode keyword
            - queue number
              - apply-groups reference
              - apply-groups-exclude reference
              - burst-limit (number | keyword)
              - cbs (number | keyword)
              - drop-tail
                - low
                  - percent-reduction-from-mbs (number | keyword)
              - mbs (number | keyword)
              - multipoint boolean
              - packet-byte-offset number
              - queue-mode keyword
              - queue-type keyword
              - rate
                - cir (number | keyword)
                - pir (number | keyword)
                - police
              - scheduler-parent
                - cir-level number
                - cir-weight number
                - level number
                - scheduler-name named-item
```


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configure qos queue-group-templates ingress queue-group queue scheduler-parent weight

```
                  - weight number
      - sap-egress qos-policy-name
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - dot1p number
            - apply-groups reference
            - apply-groups-exclude reference
            - fc keyword
            - profile keyword
         - dscp keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - fc keyword
            - profile keyword
         - ethernet-ctag boolean
         - fc keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - de-mark
               - force number
            - de-mark-inner
               - force number
            - de-mark-outer
               - force number
            - dot1p
               - exceed-profile number
               - in-profile number
               - out-profile number
            - dot1p-inner
               - in-profile number
               - out-profile number
            - dot1p-outer
               - exceed-profile number
               - in-profile number
               - out-profile number
            - dscp
               - exceed-profile keyword
               - in-profile keyword
               - out-profile keyword
            - policer reference
            - port-redirect-group-queue
               - queue number
            - prec
               - exceed-profile number
               - in-profile number
               - out-profile number
            - queue reference
            - queue-group-queue
               - instance number
               - queue reference
               - queue-group-name reference
         - ip-criteria
            - entry number
               - action
                  - fc keyword
                  - policer reference
                  - port-redirect-group-queue boolean
                  - profile keyword
                  - queue number
                  - type keyword
                  - use-fc-mapped-queue boolean
               - apply-groups reference
               - apply-groups-exclude reference
```


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configure qos sap-egress ip-criteria entry description

```
            - description description
            - match
               - dscp keyword
               - dst-ip
                  - address (ipv4-prefix-with-host-bits | ipv4-address)
                  - ip-prefix-list reference
                  - mask ipv4-address
               - dst-port
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
               - fragment keyword
               - protocol (number | keyword)
               - src-ip
                  - address (ipv4-prefix-with-host-bits | ipv4-address)
                  - ip-prefix-list reference
                  - mask ipv4-address
               - src-port
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
      - ipv6-criteria
         - entry number
            - action
               - fc keyword
               - policer reference
               - port-redirect-group-queue boolean
               - profile keyword
               - queue number
               - type keyword
               - use-fc-mapped-queue boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - match
               - dscp keyword
               - dst-ip
                  - address (ipv6-prefix-with-host-bits | ipv6-address)
                  - mask ipv6-address
               - dst-port
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
               - next-header (number | keyword)
               - src-ip
                  - address (ipv6-prefix-with-host-bits | ipv6-address)
                  - mask ipv6-address
               - src-port
                  - eq number
                  - gt number
                  - lt number
                  - range
                     - end number
                     - start number
      - parent-location keyword
```


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```
        - policer number
            - adaptation-rule
                - cir keyword
                - pir keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - arbiter-parent
                - arbiter-name named-item
                - level number
                - weight number
            - cbs (number | keyword)
            - description description
            - dscp-prec-remarking boolean
            - exceed-pir boolean
            - high-prio-only (number | keyword)
            - mbs (number | keyword)
            - packet-byte-offset number
            - percent-rate
                - cir decimal-number
                - pir decimal-number
                - reference-rate keyword
            - port-parent
                - cir-level number
                - cir-weight number
                - level number
                - weight number
            - profile-capped boolean
            - profile-out-preserve boolean
            - rate
                - cir (number | keyword)
                - pir (number | keyword)
            - scheduler-parent
                - cir-level number
                - cir-weight number
                - level number
                - scheduler-name named-item
                - weight number
            - stat-mode keyword
        - policy-id number
        - prec number
            - apply-groups reference
            - apply-groups-exclude reference
            - fc keyword
            - profile keyword
        - queue number
            - apply-groups reference
            - apply-groups-exclude reference
            - avg-frame-overhead decimal-number
            - burst-limit (number | keyword)
            - cbs (number | keyword)
            - drop-tail
                - exceed
                    - percent-reduction-from-mbs (number | keyword)
                - high
                    - percent-reduction-from-mbs (number | keyword)
                - highplus
                    - percent-reduction-from-mbs (number | keyword)
                - low
                    - percent-reduction-from-mbs (number | keyword)
            - mbs (number | keyword)
            - packet-byte-offset number
            - percent-rate
                - cir decimal-number
                - pir decimal-number
```


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configure qos sap-egress queue percent-rate reference-rate

```
            - reference-rate keyword
         - port-parent
            - cir-level number
            - cir-weight number
            - level number
            - weight number
         - queue-type keyword
         - rate
            - cir (number | keyword)
            - pir (number | keyword)
         - scheduler-parent
            - cir-level number
            - cir-weight number
            - level number
            - scheduler-name named-item
            - weight number
         - wred-queue
            - mode keyword
            - usage keyword
   - scope keyword
- sap-ingress qos-policy-name
   - apply-groups reference
   - apply-groups-exclude reference
   - default-fc sap-ingress-fc-name
   - default-priority keyword
   - description description
   - dot1p number
      - apply-groups reference
      - apply-groups-exclude reference
      - fc sap-ingress-fc-name
      - priority keyword
   - dscp keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - fc sap-ingress-fc-name
      - priority keyword
   - fc sap-ingress-fc-name
      - apply-groups reference
      - apply-groups-exclude reference
      - broadcast-policer number
      - broadcast-queue reference
      - broadcast-queue-group-queue
         - queue reference
         - queue-group-name reference
      - de-1-out-profile boolean
      - egress-fc keyword
      - fp-redirect-group-broadcast-policer
      - fp-redirect-group-multicast-policer
      - fp-redirect-group-policer
      - fp-redirect-group-unknown-policer
      - in-remark
         - dscp keyword
         - prec number
      - multicast-policer number
      - multicast-queue reference
      - multicast-queue-group-queue
         - queue reference
         - queue-group-name reference
      - out-remark
         - dscp keyword
         - prec number
      - policer number
      - profile keyword
      - queue reference
```


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```
            - queue-group-queue
               - queue reference
               - queue-group-name reference
            - unknown-policer number
            - unknown-queue reference
            - unknown-queue-group-queue
               - queue reference
               - queue-group-name reference
         - ip-criteria
            - entry number
               - action
                  - fc sap-ingress-fc-name
                  - priority keyword
                  - type keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - match
                  - dscp keyword
                  - dst-ip
                     - address (ipv4-prefix-with-host-bits | ipv4-address)
                     - ip-prefix-list reference
                     - mask ipv4-address
                  - dst-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
                  - fragment keyword
                  - protocol (number | keyword)
                  - src-ip
                     - address (ipv4-prefix-with-host-bits | ipv4-address)
                     - ip-prefix-list reference
                     - mask ipv4-address
                  - src-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
         - ipv6-criteria
            - entry number
               - action
                  - fc sap-ingress-fc-name
                  - priority keyword
                  - type keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - match
                  - dscp keyword
                  - dst-ip
                     - address (ipv6-prefix-with-host-bits | ipv6-address)
                     - mask ipv6-address
                  - dst-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
```


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```
                  - fragment keyword
                  - next-header (number | keyword)
                  - src-ip
                     - address (ipv6-prefix-with-host-bits | ipv6-address)
                     - mask ipv6-address
                  - src-port
                     - eq number
                     - gt number
                     - lt number
                     - range
                        - end number
                        - start number
         - mac-criteria
            - entry number
               - action
                  - fc sap-ingress-fc-name
                  - priority keyword
                  - type keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - match
                  - dot1p
                     - mask number
                     - priority number
                  - dst-mac
                     - address mac-address
                     - mask mac-address
                  - etype etype-value
                  - frame-type keyword
                  - inner-tag
                     - mask number
                     - vlan number
                  - llc-dsap
                     - dsap number
                     - mask number
                  - llc-ssap
                     - mask number
                     - ssap number
                  - outer-tag
                     - mask number
                     - vlan number
                  - snap-oui keyword
                  - snap-pid number
                  - src-mac
                     - address mac-address
                     - mask mac-address
            - type keyword
         - policer number
            - apply-groups reference
            - apply-groups-exclude reference
            - arbiter-parent
               - arbiter-name named-item
               - level number
               - weight number
            - cbs (number | keyword)
            - description description
            - high-prio-only (number | keyword)
            - mbs (number | keyword)
            - packet-byte-offset number
            - percent-rate
               - cir decimal-number
               - pir decimal-number
               - reference-rate keyword
```


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```
            - profile-capped boolean
            - rate
               - cir (number | keyword)
               - pir (number | keyword)
            - stat-mode keyword
         - policy-id number
         - prec number
            - apply-groups reference
            - apply-groups-exclude reference
            - fc sap-ingress-fc-name
            - priority keyword
         - queue number
            - apply-groups reference
            - apply-groups-exclude reference
            - burst-limit (number | keyword)
            - cbs (number | keyword)
            - drop-tail
               - low
                  - percent-reduction-from-mbs (number | keyword)
            - mbs (number | keyword)
            - multipoint boolean
            - packet-byte-offset number
            - percent-rate
               - cir decimal-number
               - fir decimal-number
               - pir decimal-number
               - police
               - reference-rate keyword
            - queue-mode keyword
            - queue-type keyword
            - rate
               - cir (number | keyword)
               - fir (number | keyword)
               - pir (number | keyword)
               - police
            - scheduler-parent
               - cir-level number
               - cir-weight number
               - level number
               - scheduler-name named-item
               - weight number
         - scope keyword
      - scheduler-policy named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - frame-based-accounting boolean
         - tier number
            - apply-groups reference
            - apply-groups-exclude reference
            - parent-location keyword
            - scheduler named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - limit-unused-bandwidth boolean
               - percent-rate
                  - cir (keyword | decimal-number)
                  - pir decimal-number
                  - reference-rate keyword
               - port-parent
                  - cir-level number
                  - cir-weight number
                  - level number
```


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configure qos scheduler-policy tier scheduler port-parent weight

```
                  - weight number
               - rate
                  - cir (number | keyword)
                  - pir (number | keyword)
               - scheduler-parent
                  - cir-level number
                  - cir-weight number
                  - level number
                  - scheduler-name named-item
                  - weight number
```


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4.22.1 qos command descriptions

qos

Synopsis	Enter the **qos** context
Context	**configure** qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

match-list

Synopsis	Enter the **match-list** context
Context	**configure** qos match-list
Tree	match-list
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list [prefix-list-name] *named-item*

Synopsis	Enter the **ip-prefix-list** list instance
Context	**configure** qos match-list ip-prefix-list *named-item*
Tree	ip-prefix-list
Max. instances	512
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list-name**] *named-item*

Synopsis	IP prefix list name
Context	**configure** qos match-list ip-prefix-list *named-item*
Tree	ip-prefix-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos match-list ip-prefix-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *ipv4-prefix*

Synopsis	Add a list entry for **prefix**
Context	**configure** qos match-list ip-prefix-list *named-item* prefix *ipv4-prefix*
Tree	prefix
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *ipv4-prefix*

Synopsis	IPv4 address prefix
Context	**configure** qos match-list ip-prefix-list *named-item* prefix *ipv4-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-prefix-list [prefix-list-name] *named-item*

Synopsis	Enter the **ipv6-prefix-list** list instance
Context	**configure** qos match-list ipv6-prefix-list *named-item*
Tree	ipv6-prefix-list
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list-name**] *named-item*

Synopsis	IP prefix list name
Context	**configure** qos match-list ipv6-prefix-list *named-item*
Tree	ipv6-prefix-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos match-list ipv6-prefix-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Add a list entry for **prefix**
Context	**configure** qos match-list ipv6-prefix-list *named-item* prefix *ipv6-prefix*

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Tree	prefix
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	Ipv6 address prefix
Context	**configure** qos match-list ipv6-prefix-list *named-item* prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-auto-id

Synopsis	Enter the **md-auto-id** context
Context	**configure** qos md-auto-id
Tree	md-auto-id
Introduced	25.3.R2
Platforms	SAR Gen 2

qos-policy-id-range

Synopsis	Enable the **qos-policy-id-range** context
Context	**configure** qos md-auto-id qos-policy-id-range
Tree	qos-policy-id-range
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of the ID range
Context	**configure** qos md-auto-id qos-policy-id-range end *number*
Tree	end
Range	2 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Lower bound of the ID range
Context	**configure** qos md-auto-id qos-policy-id-range start *number*
Tree	start
Range	2 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

network [network-policy-name] *network-policy-name*

Synopsis	Enter the **network** list instance
Context	**configure** qos network *network-policy-name*
Tree	network
Max. instances	255
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**network-policy-name**] *network-policy-name*

Synopsis	QoS network policy name
Context	**configure** qos network *network-policy-name*
Tree	network
String length	1 to 64
String format	'network-policy-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos network *network-policy-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** qos network *network-policy-name* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp [dscp-name] *keyword*

Synopsis	Enter the **dscp** list instance
Context	**configure** qos network *network-policy-name* egress dscp *keyword*

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Tree	dscp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-name**] *keyword*

Synopsis	DSCP name to perform reclassification actions
Context	**configure** qos network *network-policy-name* egress dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* egress dscp *keyword* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile to use for the ingressing traffic

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Context	**configure** qos network *network-policy-name* egress dscp *keyword* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc [fc-name] *keyword*

Synopsis	Enter the **fc** list instance
Context	**configure** qos network *network-policy-name* egress fc *keyword*
Tree	fc
Introduced	25.3.R2
Platforms	SAR Gen 2

[**fc-name**] *keyword*

Synopsis	Forwarding class name
Context	**configure** qos network *network-policy-name* egress fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

de-mark

Synopsis	Enable the **de-mark** context
Context	**configure** qos network *network-policy-name* egress fc *keyword* de-mark
Tree	de-mark

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Introduced	25.3.R2
Platforms	SAR Gen 2

force *number*

Synopsis	DE value
Context	**configure** qos network *network-policy-name* egress fc *keyword* de-mark force *number*
Tree	force
Range	0 to 1
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p-in-profile *number*

Synopsis	Dot1p marking for in-profile marking
Context	**configure** qos network *network-policy-name* egress fc *keyword* dot1p-in-profile *number*
Tree	dot1p-in-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p-out-profile *number*

Synopsis	Dot1p marking for out-of-profile marking
Context	**configure** qos network *network-policy-name* egress fc *keyword* dot1p-out-profile *number*
Tree	dot1p-out-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp-in-profile *keyword*

Synopsis	DSCP marking for in-profile marking
Context	**configure** qos network *network-policy-name* egress fc *keyword* dscp-in-profile *keyword*
Tree	dscp-in-profile

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Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp-out-profile *keyword*

Synopsis	DSCP marking for out-of-profile marking
Context	**configure** qos network *network-policy-name* egress fc *keyword* dscp-out-profile *keyword*
Tree	dscp-out-profile
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-exp-in-profile *number*

Synopsis	LSP-EXP marking for in-profile marking
Context	**configure** qos network *network-policy-name* egress fc *keyword* lsp-exp-in-profile *number*
Tree	lsp-exp-in-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-exp-out-profile *number*

Synopsis	LSP-EXP marking for out-of-profile marking
Context	**configure** qos network *network-policy-name* egress fc *keyword* lsp-exp-out-profile *number*
Tree	lsp-exp-out-profile
Range	0 to 7

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Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** qos network *network-policy-name* egress fc *keyword* port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *number*

Synopsis	Policer to be used
Context	**configure** qos network *network-policy-name* egress fc *keyword* port-redirect-group policer *number*
Tree	policer
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *number*

Synopsis	Queue to be used
Context	**configure** qos network *network-policy-name* egress fc *keyword* port-redirect-group queue *number*
Tree	queue
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-criteria

Synopsis	Enter the **ip-criteria** context
Context	**configure** qos network *network-policy-name* egress ip-criteria
Tree	ip-criteria

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Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Entry ID for match criterion and corresponding action
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number*
Tree	entry
Description	This command uniquely identifies a match criterion and the corresponding action. Nokia recommends that multiple entries be given entry IDs in staggered increments. This allows users to insert a new entry in an existing policy without requiring renumbering all of the existing entries.
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class

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Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *number*

Synopsis	Policer ID to be used for the matched traffic
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action port-redirect-group policer *number*
Tree	policer
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *number*

Synopsis	Queue to be used for post-policed traffic
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action port-redirect-group queue *number*
Tree	queue

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Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Profile reclassification action
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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match

Synopsis	Enter the **match** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP value to match in the packet
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Destination IPv4 address to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address

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String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	Subnet mask
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmentation state as the match criterion
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match fragment *keyword*
Tree	fragment
Description	This command configures fragmented or non-fragmented IP packets as a network QoS policy match criterion. When unconfigured, all packets match regardless of whether they are fragmented.
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-type *number*

Synopsis	ICMP type in the ICMP header of IPv4 packet to match

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Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match icmp-type *number*
Tree	icmp-type
Description	This command configures matching on the ICMP type field in the ICMP header of an IPv4 packet as a network QoS match criterion. An entry containing Layer 4 non-zero match criteria does not match non-initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing a match criteria of zero may not match non-initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Source IPv4 address to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	Subnet mask
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition

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Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port range
Tree	range

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Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match
Context	**configure** qos network *network-policy-name* egress ip-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-criteria

Synopsis	Enter the **ipv6-criteria** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria
Tree	ipv6-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number*

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Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Entry ID for match criterion and corresponding action
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number*
Tree	entry
Description	This command uniquely identifies a match criterion and the corresponding action. Nokia recommends that multiple entries be given entry IDs in staggered increments. This allows users to insert a new entry in an existing policy without requiring renumbering all of the existing entries.
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority)

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h1 – High 1 (high priority)
nc – Network Control (high priority)

Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *number*

Synopsis	Policer ID to be used for the matched traffic
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action port-redirect-group policer *number*
Tree	policer
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *number*

Synopsis	Queue to be used for post-policed traffic
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action port-redirect-group queue *number*
Tree	queue
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Profile reclassification action

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Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

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dscp *keyword*

Synopsis	DSCP value to match in the packet
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	Destination IPv6 address to match
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	Address mask

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Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match

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Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmentation state as the match criterion
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match fragment *keyword*
Tree	fragment
Description	This command configures fragmented or non-fragmented IPv6 packets as a network QoS policy match criterion. When unconfigured, all packets match regardless of whether they are fragmented.
Options	false, true, first-only, non-first-only
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-type *number*

Synopsis	ICMPv6 type in ICMPv6 header of IPv6 packet to match
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match icmp-type *number*
Tree	icmp-type
Description	This command configures matching on the ICMPv6 type field in the ICMPv6 header of an IPv6 packet as a network QoS match criterion. An entry containing Layer 4 non-zero match criteria does not match non-initial (second, third, and so on) fragments of a fragmented packet because only the first fragment contains the Layer 4 information. Similarly, an entry containing a match criteria of zero may not match non-initial fragments when the Layer 4 header is not present in a packet fragment and other match criteria are also met.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match next-header *(number | keyword)*
Tree	next-header
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	Source IPv6 address to match
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	Address mask

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Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match

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Context	**configure** qos network *network-policy-name* egress ipv6-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

prec [prec-value] *number*

Synopsis	Enter the **prec** list instance
Context	**configure** qos network *network-policy-name* egress prec *number*
Tree	prec
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prec-value**] *number*

Synopsis	Precedence value for which mapping is performed
Context	**configure** qos network *network-policy-name* egress prec *number*
Tree	prec
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* egress prec *number* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority)

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	nc – Network Control (high priority)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile to use for the ingressing traffic
Context	**configure** qos network *network-policy-name* egress prec *number* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

remark-trusted

Synopsis	Enable the **remark-trusted** context
Context	**configure** qos network *network-policy-name* egress remark-trusted
Tree	remark-trusted
Introduced	25.3.R2
Platforms	SAR Gen 2

force-egress-marking *boolean*

Synopsis	Remark DSCP bits in the internal IP header
Context	**configure** qos network *network-policy-name* egress remark-trusted force-egress-marking *boolean*
Tree	force-egress-marking
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ingress

Synopsis	Enter the **ingress** context
Context	**configure** qos network *network-policy-name* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action

Synopsis	Enter the **default-action** context
Context	**configure** qos network *network-policy-name* ingress default-action
Tree	default-action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class used when classifying ingress traffic
Context	**configure** qos network *network-policy-name* ingress default-action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the ingressing traffic
Context	**configure** qos network *network-policy-name* ingress default-action profile *keyword*

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Tree	profile
Options	in, out, exceed, inplus
Default	out
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p [dot1p-value] *number*

Synopsis	Enter the **dot1p** list instance
Context	**configure** qos network *network-policy-name* ingress dot1p *number*
Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dot1p-value**] *number*

Synopsis	Dot1p value to match in the packet
Context	**configure** qos network *network-policy-name* ingress dot1p *number*
Tree	dot1p
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* ingress dot1p *number* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile to be used for the ingressing traffic
Context	**configure** qos network *network-policy-name* ingress dot1p *number* profile *keyword*
Tree	profile
Options	in, out, de, exceed, inplus
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp [dscp-name] *keyword*

Synopsis	Enter the **dscp** list instance
Context	**configure** qos network *network-policy-name* ingress dscp *keyword*
Tree	dscp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-name**] *keyword*

Synopsis	DSCP associated with the forwarding class
Context	**configure** qos network *network-policy-name* ingress dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* ingress dscp *keyword* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile to use for the ingressing traffic
Context	**configure** qos network *network-policy-name* ingress dscp *keyword* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc [fc-name] *keyword*

Synopsis	Enter the **fc** list instance
Context	**configure** qos network *network-policy-name* ingress fc *keyword*
Tree	fc
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**fc-name**] *keyword*

Synopsis	Forwarding class name
Context	**configure** qos network *network-policy-name* ingress fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** qos network *network-policy-name* ingress fc *keyword* fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast-policer *number*

Synopsis	Policer to be used for broadcast traffic
Context	**configure** qos network *network-policy-name* ingress fc *keyword* fp-redirect-group broadcast-policer *number*
Tree	broadcast-policer
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-policer *number*

Synopsis	Policer to be used for multicast traffic

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Context	**configure** qos network *network-policy-name* ingress fc *keyword* fp-redirect-group multicast-policer *number*
Tree	multicast-policer
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *number*

Synopsis	Policer to be used for unicast traffic
Context	**configure** qos network *network-policy-name* ingress fc *keyword* fp-redirect-group policer *number*
Tree	policer
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-policer *number*

Synopsis	Policer to be used for unknown traffic
Context	**configure** qos network *network-policy-name* ingress fc *keyword* fp-redirect-group unknown-policer *number*
Tree	unknown-policer
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-criteria

Synopsis	Enter the **ip-criteria** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria
Tree	ip-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Network Ingress IP Criteria Entry Index
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority)

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ef – Expedited Forwarding (high priority)
h1 – High 1 (high priority)
nc – Network Control (high priority)

Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the matching traffic
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* action profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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match

Synopsis	Enter the **match** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP to be used as network QoS policy match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Destination IPv4 address for network QoS policy match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address

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String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IPv4 prefix list containing IPv4 prefixes to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** qos match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port
Tree	dst-port

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Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact destination port as the match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than destination port value as match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than destination port value as the match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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range

Synopsis	Enter the **range** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmentation state as the match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match fragment *keyword*
Tree	fragment

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Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Source IPv4 address for network QoS policy match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IPv4 prefix list containing IPv4 prefixes to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** qos match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

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eq *number*

Synopsis	Exact source port as the match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than source port value as match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than destination port value as the match criterion
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context

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Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ip-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-criteria

Synopsis	Enter the **ipv6-criteria** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria
Tree	ipv6-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Network Ingress IPv6 Criteria Entry Index
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority)

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ef – Expedited Forwarding (high priority)
h1 – High 1 (high priority)
nc – Network Control (high priority)

Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the matching traffic
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* action profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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match

Synopsis	Enter the **match** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP value to match in the packet
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	Destination IPv6 address for network QoS policy match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address

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String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-list *reference*

Synopsis	IPv6 prefix list containing IPv6 prefixes to match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list
Reference	**configure** qos match-list ipv6-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

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eq *number*

Synopsis	Exact destination port as the match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than destination port value as match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than destination port value as the match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context

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Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmentation state as the match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match fragment *keyword*
Tree	fragment
Options	false, true, first-only, non-first-only
Introduced	25.3.R2
Platforms	SAR Gen 2

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next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match next-header *(number | keyword)*
Tree	next-header
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	Source IPv6 address for network QoS policy match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-list *reference*

Synopsis	IPv6 prefix list containing IPv6 prefixes to match

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Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list
Reference	**configure** qos match-list ipv6-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Exact source port as the match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than source port value as match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than destination port value as the match criterion
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, **port-list**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

Synopsis	Upper bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of port range to match
Context	**configure** qos network *network-policy-name* ingress ipv6-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ler-use-dscp *boolean*

Synopsis	Honor the DSCP markings instead of the LSP-EXP bits
Context	**configure** qos network *network-policy-name* ingress ler-use-dscp *boolean*
Tree	ler-use-dscp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-exp [lsp-exp-value] *number*

Synopsis	Enter the **lsp-exp** list instance
Context	**configure** qos network *network-policy-name* ingress lsp-exp *number*
Tree	lsp-exp
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**lsp-exp-value**] *number*

Synopsis	LSP EXP value to associate with the forwarding class
Context	**configure** qos network *network-policy-name* ingress lsp-exp *number*
Tree	lsp-exp
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos network *network-policy-name* ingress lsp-exp *number* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile to use for the ingressing traffic
Context	**configure** qos network *network-policy-name* ingress lsp-exp *number* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms SAR Gen 2

policy-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis QoS network policy ID

Context **configure** qos network *network-policy-name* policy-id *number*

Tree policy-id

Description This command specifies the QoS network policy ID and uniquely identifies the policy on the router.

Network **policy-id 1** exists as the default policy that is applied to all network interfaces by default. The network policy-id 1 cannot be modified or deleted. It defines the default DSCP-to-FC mapping and MPLS EXP-to-FC mapping for the ingress. For the egress, it defines forwarding classes that represent individual queues and the packet marking criteria.

Network **policy-id 1** exists as the default policy that is applied to all network ports by default. This default policy cannot be modified or deleted. It defines the default DSCP-to-FC mapping and default unicast meters for ingress IP traffic. For the egress, it defines the forwarding class to dot1p and DSCP values and the packet marking criteria.

If a new network policy is created (for instance, **policy-id 3**), only the default action and egress forwarding class parameters are identical to the default policy. A new network policy does not contain the default DSCP-to-FC and MPLS-EXP-to-FC mapping for network QoS policy of type **ip-interface** or the DSCP-to-FC mapping (for network QoS policy of type **port**). The default network policy can be copied to create a new network policy that includes the default ingress DSCP-to-FC and MPLS EXP-to-FC mapping (as appropriate).

Range 1 to 65535

Introduced 25.3.R2

Platforms SAR Gen 2

scope *keyword*

Synopsis Scope of the policy

Context **configure** qos network *network-policy-name* scope *keyword*

Tree scope

Options exclusive – Allow policy to be assigned to only one port
template – Allow policy to be assigned to multiple ports

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Default	template
Introduced	25.3.R2
Platforms	SAR Gen 2

network-queue [network-queue-policy] *named-item*

Synopsis	Enter the **network-queue** list instance
Context	**configure** qos network-queue *named-item*
Tree	network-queue
Max. instances	255
Introduced	25.3.R2
Platforms	SAR Gen 2

[**network-queue-policy**] *named-item*

Synopsis	Name for network queue policy
Context	**configure** qos network-queue *named-item*
Tree	network-queue
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos network-queue *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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fc [fc-name] *keyword*

Synopsis	Enter the **fc** list instance
Context	**configure** qos network-queue *named-item* fc *keyword*
Tree	fc
Introduced	25.3.R2
Platforms	SAR Gen 2

[**fc-name**] *keyword*

Synopsis	Forwarding class name
Context	**configure** qos network-queue *named-item* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-queue *reference*

Synopsis	Multicast queue for packets in this forwarding class
Context	**configure** qos network-queue *named-item* fc *keyword* multicast-queue *reference*
Tree	multicast-queue
Reference	**configure** qos network-queue *named-item* queue *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Queue for packets in this forwarding class

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Context	**configure** qos network-queue *named-item* fc *keyword* queue *reference*
Tree	queue
Reference	**configure** qos network-queue *named-item* queue *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *number*

Synopsis	Enter the **queue** list instance
Context	**configure** qos network-queue *named-item* queue *number*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *number*

Synopsis	Queue identifier
Context	**configure** qos network-queue *named-item* queue *number*
Tree	queue
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-frame-overhead *decimal-number*

Synopsis	Average packet-to-frame encapsulation overhead
Context	**configure** qos network-queue *named-item* queue *number* avg-frame-overhead *decimal-number*
Tree	avg-frame-overhead
Description	This command configures the average frame overhead, expressed as a percentage, at which the offered load expands on the physical medium (wire) at egress. This is important for accurate "on-the-wire" rate calculations at various levels of H-QoS that do not inherently account for the physical medium characteristics. For example, without considering this overhead, a port scheduler in H-QoS might inaccurately estimate the available bandwidth on the wire, potentially leading to congestion issues and unexpected packet loss.

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The rates impacted by the average frame overhead encompass the rates set on port-schedulers and aggregate rate limits for subscribers and Vports. This impact is evident in the configured values, which represent on-the-wire rates. Queue configured rates, however, remain unaffected by this adjustment and continue to reflect Layer 2 rates.

Configure the average frame overhead in networks with physical mediums that have constant sizes of transmission units (packets or cells) or in scenarios where the average packet size is known.

The average frame overhead only affects rate and weight calculations and does not impact collected statistics for accounting purposes.

For Ethernet ports, the effect of this command depends on the setting of the **avg-frame-overhead-mode** command in advanced QoS configuration policy associated with the queue. If the **avg-frame-overhead-mode** is set to **auto**, the packet encapsulation overhead calculation is based on a fixed 20 bytes (7 bytes for preamble, 1 byte for start of frame delimiter and 12 bytes for Inter-Frame Gap (IFG)) that Ethernet medium adds to every packet during transmission. In other words, the configured rates for port scheduler and aggregate rate limits for subscribers and Vports represent on-the-wire rates.

Range	0.00 to 100.00
Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *decimal-number*

Synopsis	Reserved buffer space for the queue
Context	**configure** qos network-queue *named-item* queue *number* cbs *decimal-number*
Tree	cbs
Range	0.00 to 100.00
Units	centipercent
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** qos network-queue *named-item* queue *number* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

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low

Synopsis	Enter the **low** context
Context	**configure** qos network-queue *named-item* queue *number* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Low drop-tail percent from MBS that is reduced
Context	**configure** qos network-queue *named-item* queue *number* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *decimal-number*

Synopsis	Percentage of buffer space allowed for the queue
Context	**configure** qos network-queue *named-item* queue *number* mbs *decimal-number*
Tree	mbs
Range	0.00 to 100.00
Units	centipercent
Introduced	25.3.R2
Platforms	SAR Gen 2

multipoint *boolean*

WARNING:
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Synopsis	Apply as a multicast queue
Context	**configure** qos network-queue *named-item* queue *number* multipoint *boolean*
Tree	multipoint
Introduced	25.3.R2
Platforms	SAR Gen 2

port-parent

Synopsis	Enable the **port-parent** context
Context	**configure** qos network-queue *named-item* queue *number* port-parent
Tree	port-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Port priority to receive bandwidth for within-CIR pass
Context	**configure** qos network-queue *named-item* queue *number* port-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight to receive bandwidth at the within-CIR level
Context	**configure** qos network-queue *named-item* queue *number* port-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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level *number*

Synopsis	Port priority level for above-CIR behavior
Context	**configure** qos network-queue *named-item* queue *number* port-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos network-queue *named-item* queue *number* port-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Priority that this queue receives from the hardware level schedulers
Context	**configure** qos network-queue *named-item* queue *number* queue-type *keyword*
Tree	queue-type
Options	expedited, auto-expedited, best-effort
Default	auto-expedited
Introduced	25.3.R2
Platforms	SAR Gen 2

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rate

Synopsis	Enter the **rate** context
Context	**configure** qos network-queue *named-item* queue *number* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *number*

Synopsis	CIR percentage rate
Context	**configure** qos network-queue *named-item* queue *number* rate cir *number*
Tree	cir
Range	0 to 100
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *number*

Synopsis	PIR percentage rate
Context	**configure** qos network-queue *named-item* queue *number* rate pir *number*
Tree	pir
Range	1 to 100
Units	percent
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy [policer-control-policy-name] *named-item*

Synopsis	Enter the **policer-control-policy** list instance
Context	**configure** qos policer-control-policy *named-item*
Tree	policer-control-policy

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Max. instances	2047
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-control-policy-name**] *named-item*

Synopsis	Policer control policy name
Context	**configure** qos policer-control-policy *named-item*
Tree	policer-control-policy
Description	This command specifies the policer control policy name. Each policer control policy must be created with a unique policy name.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos policer-control-policy *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** qos policer-control-policy *named-item* root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-percent-rate *decimal-number*

Synopsis	Maximum rate of the arbiter
Context	**configure** qos policer-control-policy *named-item* root max-percent-rate *decimal-number*
Tree	max-percent-rate
Range	0.01 to 100.00
Notes	The following elements are part of a choice: **max-percent-rate** or **max-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit of the arbiter
Context	**configure** qos policer-control-policy *named-item* root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Default	max
Notes	The following elements are part of a choice: **max-percent-rate** or **max-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** qos policer-control-policy *named-item* root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum separation between policer discard thresholds
Context	**configure** qos policer-control-policy *named-item* root priority-mbs-thresholds min-thresh-separation *(number | keyword)*

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Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** qos policer-control-policy *named-item* root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** qos policer-control-policy *named-item* root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fixed-mbs *boolean*

Synopsis	Consider cumulative buffer space to be fixed
Context	**configure** qos policer-control-policy *named-item* root priority-mbs-thresholds priority *number* fixed-mbs *boolean*
Tree	fixed-mbs
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space
Context	**configure** qos policer-control-policy *named-item* root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

profile-preferred *boolean*

Synopsis	Provide a preference to consume PIR bucket tokens
Context	**configure** qos policer-control-policy *named-item* root profile-preferred *boolean*
Tree	profile-preferred
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tier [tier-id] *number*

Synopsis	Enter the **tier** list instance
Context	**configure** qos policer-control-policy *named-item* tier *number*
Tree	tier
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tier-id**] *number*

Synopsis	Tier for policer control policer arbiter

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Context	**configure** qos policer-control-policy *named-item* tier *number*
Tree	tier
Range	1 to 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter [arbiter-name] *named-item*

Synopsis	Enter the **arbiter** list instance
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item*
Tree	arbiter
Introduced	25.3.R2
Platforms	SAR Gen 2

[**arbiter-name**] *named-item*

Synopsis	Arbiter name
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item*
Tree	arbiter
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-parent

Synopsis	Enter the **arbiter-parent** context
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* arbiter-parent
Tree	arbiter-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

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arbiter-name *named-item*

Synopsis	Arbiter name
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* arbiter-parent arbiter-name *named-item*
Tree	arbiter-name
Description	This command specifies the arbiter name. In tier 1, the arbiter name is not allowed and only the system reversed name "root" is accepted. The specified arbiter name must exist within the policer control policy at tier 1 or the parent command fails. When a tiered arbiter is acting as a parent for another tiered arbiter, the parent arbiter cannot be removed from the policy. The child arbiter receives all bandwidth directly from its parent arbiter (that receives bandwidth from the root arbiter).
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level the child arbiter uses on its parent
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* arbiter-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight attribute at parent level applied to children
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* arbiter-parent weight *number*
Tree	weight
Description	This command defines how multiple children at the same parent strict level compete when insufficient bandwidth exists on the parent for that level. Each child's weight is divided by the sum of the active children's weights and the result is multiplied by the available bandwidth. If a child cannot receive its entire weighted fair share of bandwidth

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due to a defined child rate limit, the remainder of its bandwidth is distributed between the other children based on their weights.

Range	1 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate *decimal-number*

Synopsis	Maximum rate of the arbiter
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* percent-rate *decimal-number*
Tree	percent-rate
Range	0.01 to 100.00
Notes	The following elements are part of a choice: (**percent-rate** and **reference-rate**) or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* rate *(number | keyword)*
Tree	rate
Range	1 to 6400000000

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Options	max
Default	max
Notes	The following elements are part of a choice: (**percent-rate** and **reference-rate**) or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos policer-control-policy *named-item* tier *number* arbiter *named-item* reference-rate *keyword*
Tree	reference-rate
Options	local-limit, reference-port-limit
Default	local-limit
Notes	The following elements are part of a choice: (**percent-rate** and **reference-rate**) or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-scheduler-policy [name] *named-item*

Synopsis	Enter the **port-scheduler-policy** list instance
Context	**configure** qos port-scheduler-policy *named-item*
Tree	port-scheduler-policy
Description	Commands in this context configure port scheduler policies. When a port scheduler has been associated with an egress port, it is possible to override the following command options: • The maximum rate allowed for the scheduler • The maximum rate for each priority level (1 to 8) • The CIR associated with each priority level (1 to 8) The orphan priority level (level 0) has no configuration command options and cannot be overridden.
Max. instances	1023
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	Port scheduler policy name
Context	**configure** qos port-scheduler-policy *named-item*
Tree	port-scheduler-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos port-scheduler-policy *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

level [level-id] *number*

Synopsis	Enter the **level** list instance
Context	**configure** qos port-scheduler-policy *named-item* level *number*
Tree	level
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-id**] *number*

Synopsis	Priority level this port scheduler policy
Context	**configure** qos port-scheduler-policy *named-item* level *number*
Tree	level
Range	1 to 8

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-threshold *number*

Synopsis	Monitoring threshold of the configured rate
Context	**configure** qos port-scheduler-policy *named-item* level *number* monitor-threshold *number*
Tree	monitor-threshold
Description	This command specifies the configured rate as a percentage. If the offered rate exceeds the configured threshold, a counter monitoring the threshold is increased.
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos port-scheduler-policy *named-item* level *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos port-scheduler-policy *named-item* level *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max

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Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos port-scheduler-policy *named-item* level *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight of the level in the weighted scheduler group
Context	**configure** qos port-scheduler-policy *named-item* level *number* weight *number*
Tree	weight
Range	1 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** qos port-scheduler-policy *named-item* max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Default	max

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Notes	The following elements are part of a choice: **max-percent-rate** or **max-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-threshold *number*

Synopsis	Congestion monitoring threshold
Context	**configure** qos port-scheduler-policy *named-item* monitor-threshold *number*
Tree	monitor-threshold
Description	This command defines the congestion monitoring threshold for the desired monitoring entity under the port-scheduler for per aggregate port scheduler rate, per individual level, and per group that is aggregating multiple levels. The congestion threshold is specified as a percentage of the configured PIR rate for the entity for which congestion monitoring is desired. For example, if the configured PIR rate for level 1 is 1000,000 kb/s, and the monitoring threshold is set to 90%, an event where the offered rate is >90,000 kb/s is recorded. This event is shown as part of the cumulative count of congestion threshold exceeds since the last clearing of the counters.
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

orphan-overrides

Synopsis	Enter the **orphan-overrides** context
Context	**configure** qos port-scheduler-policy *named-item* orphan-overrides
Tree	orphan-overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Port priority level for within-CIR orphan behavior
Context	**configure** qos port-scheduler-policy *named-item* orphan-overrides cir-level *number*
Tree	cir-level

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Description	This command defines the port priority that the orphan queues and schedulers use to receive bandwidth for their within-CIR offered-load. If the **cir-weight** command is set to the default value, the orphan queues and schedulers do not receive bandwidth during the port scheduler's within-CIR pass and this command setting is ignored.
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight to use in the within-CIR port priority level
Context	**configure** qos port-scheduler-policy *named-item* orphan-overrides cir-weight *number*
Tree	cir-weight
Description	This command defines the weight the orphan queues and schedulers will use in the within-CIR port priority level. When this command is set to the default value, the orphan queues and schedulers do not receive bandwidth during the port scheduler's within-CIR pass and the **cir-level** command is ignored.
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Port priority level for above-CIR orphan behavior
Context	**configure** qos port-scheduler-policy *named-item* orphan-overrides level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight to use in the above-CIR port priority level

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Context	**configure** qos port-scheduler-policy *named-item* orphan-overrides weight *number*
Tree	weight
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-classifier-policy [name] *named-item-64*

Synopsis	Enter the **pre-classifier-policy** list instance
Context	**configure** qos pre-classifier-policy *named-item-64*
Tree	pre-classifier-policy
Description	Commands in this context configure a QoS preclassifier policy.
Introduced	26.3.R1
Platforms	SAR Gen 2

[**name**] *named-item-64*

Synopsis	Preclassifier policy name
Context	**configure** qos pre-classifier-policy *named-item-64*
Tree	pre-classifier-policy
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	SAR Gen 2

default-policer-id *number*

Synopsis	Default policer ID for the preclassifier policy
Context	**configure** qos pre-classifier-policy *named-item-64* default-policer-id *number*
Tree	default-policer-id
Range	1 to 4
Introduced	26.3.R1

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos pre-classifier-policy *named-item-64* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	SAR Gen 2

policer [policer-id] *number*

Synopsis	Enter the **policer** list instance
Context	**configure** qos pre-classifier-policy *named-item-64* policer *number*
Tree	policer
Description	Commands in this context configure the policer for the preclassifier policy.
Introduced	26.3.R1
Platforms	SAR Gen 2

[**policer-id**] *number*

Synopsis	Policer ID for the preclassifier policy
Context	**configure** qos pre-classifier-policy *named-item-64* policer *number*
Tree	policer
Range	1 to 4
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	SAR Gen 2

dot1p *number*

Synopsis	Dot1p level configured for this policer
Context	**configure** qos pre-classifier-policy *named-item-64* policer *number* dot1p *number*

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Tree	dot1p
Description	This command configures the dot1p marking to policer mapping under the preclassifier policy.
Range	0 to 7
Max. instances	8
Introduced	26.3.R1
Platforms	SAR Gen 2

mbs *number*

Synopsis	MBS percentage reserved for high priority traffic
Context	**configure** qos pre-classifier-policy *named-item-64* policer *number* mbs *number*
Tree	mbs
Description	This command configures the maximum burst size (MBS), which is a percentage of the PIR leaky bucket reserved for high priority traffic.
Range	0 to 100
Default	100
Introduced	26.3.R1
Platforms	SAR Gen 2

pir *number*

Synopsis	Explicit maximum frame-based bandwidth limit
Context	**configure** qos pre-classifier-policy *named-item-64* policer *number* pir *number*
Tree	pir
Description	This command configures the PIR, which is the explicit maximum frame-based bandwidth limit.
Range	0 to 100
Units	percent
Introduced	26.3.R1
Platforms	SAR Gen 2

queue-group-templates

Synopsis	Enter the **queue-group-templates** context

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Context	**configure** qos queue-group-templates
Tree	queue-group-templates
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** qos queue-group-templates egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [egress-queue-group-name] *named-item*

Synopsis	Enter the **queue-group** list instance
Context	**configure** qos queue-group-templates egress queue-group *named-item*
Tree	queue-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[egress-queue-group-name] *named-item*

Synopsis	Egress queue group template name
Context	**configure** qos queue-group-templates egress queue-group *named-item*
Tree	queue-group
Description	This command specifies the name of the egress queue group template. Each ingress queue group template must be uniquely named within the system. Multiple ingress queue group templates may not share the same name. An ingress and egress queue group template may share the same name.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description-or-empty*

Synopsis	Text description
Context	**configure** qos queue-group-templates egress queue-group *named-item* description *description-or-empty*
Tree	description
String length	0 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

fc [fc-name] *keyword*

Synopsis	Enter the **fc** list instance
Context	**configure** qos queue-group-templates egress queue-group *named-item* fc *keyword*
Tree	fc
Introduced	25.3.R2
Platforms	SAR Gen 2

[**fc-name**] *keyword*

Synopsis	Forwarding class name
Context	**configure** qos queue-group-templates egress queue-group *named-item* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue

Synopsis	Enter the **queue** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* fc *keyword* queue
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

none

Synopsis	No mid-pool is associated with this parent-pool
Context	**configure** qos queue-group-templates egress queue-group *named-item* fc *keyword* queue none
Tree	none
Notes	The following elements are part of a choice: **none** or **queue-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-id *reference*

Synopsis	Queue defined in forwarding class mapping
Context	**configure** qos queue-group-templates egress queue-group *named-item* fc *keyword* queue queue-id *reference*
Tree	queue-id
Reference	**configure** qos queue-group-templates egress queue-group *named-item* queue *number*
Notes	The following elements are part of a choice: **none** or **queue-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *number*

Synopsis	Enter the **policer** list instance
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number*
Tree	policer
Description	Commands in this context configure a QoS egress queue-group policer.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *number*

Synopsis	Egress queue-group policer ID
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number*
Tree	policer
Description	This command specifies the queue-group policer that will either be created or edited within the queue group template.
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-parent

Synopsis	Enter the **arbiter-parent** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* arbiter-parent
Tree	arbiter-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-name *named-item*

Synopsis	Arbiter name
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* arbiter-parent arbiter-name *named-item*
Tree	arbiter-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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level *number*

Synopsis	Priority level
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* arbiter-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight in the priority level
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* arbiter-parent weight *number*
Tree	weight
Range	1 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Exceed threshold of the CIR leaky bucket of the policer
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-pir *boolean*

Synopsis	Forward packets exceeding the PIR as exceed-profile
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* exceed-pir *boolean*
Tree	exceed-pir
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-prio-only *(number | keyword)*

Synopsis	Percentage of MBS reserved for high priority traffic
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* high-prio-only *(number | keyword)*
Tree	high-prio-only
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum buffer size for the template queue

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Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	Administrative CIR
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* percent-rate cir *decimal-number*

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Tree	cir
Range	0.00 to 100.00
Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Administrative PIR
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	local-limit, reference-port-limit
Default	local-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

profile-capped *boolean*

Synopsis	Enforce a limit on the profile
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* profile-capped *boolean*
Tree	profile-capped
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 2000000000
Units	kilobps
Options	max
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 2000000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** qos queue-group-templates egress queue-group *named-item* policer *number* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Default	minimal
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *number*

Synopsis	Enter the **queue** list instance
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *number*

Synopsis	Egress Queue-Group queue identifier
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number*
Tree	queue
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

burst-limit *(number | keyword)*

Synopsis	Explicit shaping burst size of a queue

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Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* burst-limit *(number | keyword)*
Tree	burst-limit
Range	1 to 14000000
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Reserved buffer space for the queue
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed

Synopsis	Enter the **exceed** context

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Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail exceed
Tree	exceed
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail exceed percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail high percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto

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Introduced	25.3.R2
Platforms	SAR Gen 2

highplus

Synopsis	Enter the **highplus** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail highplus
Tree	highplus
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail highplus percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Low drop-tail percent from MBS that is reduced

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Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-mbs *boolean*

Synopsis	Allow MBS size modification to maintain maximum latency
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* dynamic-mbs *boolean*
Tree	dynamic-mbs
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Buffer space allowed for the queue
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet byte offset for addition of policing information

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Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	Administrative CIR percent
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Administrative PIR percent
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00

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Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	port-limit, local-limit, reference-port-limit
Default	port-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

port-parent

Synopsis	Enable the **port-parent** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* port-parent
Tree	port-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Port priority to receive bandwidth for within-CIR pass
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* port-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* port-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Port priority for bandwidth for above-CIR offered load
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* port-parent level *number*
Tree	level
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used at above-CIR port priority level
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* port-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-delay *number*

Synopsis	Target queue delay for forwarding packets through queue
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* queue-delay *number*

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Tree	queue-delay
Range	1 to 5000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-type *keyword*

Synopsis	Method used to service queue from hardware perspective
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* queue-type *keyword*
Tree	queue-type
Options	expedited, best-effort
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 2000000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-parent

Synopsis	Enable the **scheduler-parent** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* scheduler-parent
Tree	scheduler-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* scheduler-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* scheduler-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* scheduler-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-name *named-item*

Synopsis	Parent scheduler name
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* scheduler-parent scheduler-name *named-item*
Tree	scheduler-name
Description	This command associates a scheduler name to a queue. The scheduler name must have previously been defined within an existing scheduler policy and exist on each SAP the queue is created on. There are no checks performed to ensure that the scheduler name exists within an existing scheduler policy. Until the scheduler name exists on the egress SAP, the queue operates in an orphaned state.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used by the scheduler for feeding the queue
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* scheduler-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

wred-queue

Synopsis	Enter the **wred-queue** context
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* wred-queue
Tree	wred-queue
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Pool association to allow queue-specific WRED slopes
Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* wred-queue mode *keyword*
Tree	mode
Options	native, pool-per-queue
Introduced	25.3.R2
Platforms	SAR Gen 2

usage *keyword*

Synopsis	Congestion control type

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Context	**configure** qos queue-group-templates egress queue-group *named-item* queue *number* wred-queue usage *keyword*
Tree	usage
Options	auto, exceed-low
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** qos queue-group-templates ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group [ingress-queue-group-name] *named-item*

Synopsis	Enter the **queue-group** list instance
Context	**configure** qos queue-group-templates ingress queue-group *named-item*
Tree	queue-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ingress-queue-group-name**] *named-item*

Synopsis	Ingress queue group template name
Context	**configure** qos queue-group-templates ingress queue-group *named-item*
Tree	queue-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** qos queue-group-templates ingress queue-group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *number*

Synopsis	Enter the **policer** list instance
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *number*

Synopsis	Ingress Queue-Group Policer identifier
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number*
Tree	policer
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2

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Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Default	closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Default	closest
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-parent

Synopsis	Enter the **arbiter-parent** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* arbiter-parent
Tree	arbiter-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-name *named-item*

Synopsis	Arbiter name

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Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* arbiter-parent arbiter-name *named-item*
Tree	arbiter-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* arbiter-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used by the arbiter for feeding the policer
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* arbiter-parent weight *number*
Tree	weight
Range	1 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Exceed threshold of the CIR leaky bucket of the policer
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* cbs *(number | keyword)*
Tree	cbs

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Range	0 to 268435456
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

high-prio-only *(number | keyword)*

Synopsis	Percentage of MBS reserved for high priority traffic
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* high-prio-only *(number | keyword)*
Tree	high-prio-only
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum buffer size for the template queue
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* mbs *(number | keyword)*
Tree	mbs

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Range	0 to 268435456
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	Administrative CIR
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00

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Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Administrative PIR
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

profile-capped *boolean*

Synopsis	Enforce a limit on the profile
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* profile-capped *boolean*
Tree	profile-capped
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 2000000000
Units	kilobps
Options	max
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 2000000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** qos queue-group-templates ingress queue-group *named-item* policer *number* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Default	minimal

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Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *number*

Synopsis	Enter the **queue** list instance
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *number*

Synopsis	Ingress Queue-Group Queue identifier
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*
Tree	queue
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

burst-limit *(number | keyword)*

Synopsis	Explicit shaping burst size of a queue
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* burst-limit *(number | keyword)*
Tree	burst-limit
Range	1 to 14000000
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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cbs *(number | keyword)*

Synopsis	Reserved buffer space for the queue
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Low drop-tail percent from MBS that is reduced
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* drop-tail low percent-reduction-from-mbs *(number | keyword)*

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Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum buffer space that is allowed for queue
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

multipoint *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Create an ingress multipoint queue
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* multipoint *boolean*
Tree	multipoint
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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packet-byte-offset *number*

Synopsis	Packet size modification for queue accounting
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-mode *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Queue operational mode for explicitly profiled packets
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* queue-mode *keyword*
Tree	queue-mode
Options	priority, profile
Default	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Priority that this queue receives from the hardware level schedulers
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* queue-type *keyword*
Tree	queue-type
Options	expedited, best-effort

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Default	best-effort
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 2000000000
Units	kilobps
Options	max
Default	0
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 2000000000

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Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

police

Synopsis	Drop out-of-profile traffic feeding into queue instance
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* rate police
Tree	police
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-parent

Synopsis	Enter the **scheduler-parent** context
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* scheduler-parent
Tree	scheduler-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* scheduler-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* scheduler-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* scheduler-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-name *named-item*

Synopsis	Scheduler name
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* scheduler-parent scheduler-name *named-item*
Tree	scheduler-name
Description	This command associates a scheduler name to a queue. The scheduler name must have previously been defined within an existing scheduler policy and exist on each SAP the queue is created on. There are no checks performed to ensure that the scheduler name exists within an existing scheduler policy. Until the scheduler name exists on the egress SAP, the queue operates in an orphaned state.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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weight *number*

Synopsis	Weight used by the scheduler for feeding the queue
Context	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number* scheduler-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-egress [sap-egress-policy-name] *qos-policy-name*

Synopsis	Enter the **sap-egress** list instance
Context	**configure** qos sap-egress *qos-policy-name*
Tree	sap-egress
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-egress-policy-name**] *qos-policy-name*

Synopsis	Policy name
Context	**configure** qos sap-egress *qos-policy-name*
Tree	sap-egress
String length	1 to 64
String format	'qos-policy-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-egress *qos-policy-name* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p [dot1p-value] *number*

Synopsis	Enter the **dot1p** list instance
Context	**configure** qos sap-egress *qos-policy-name* dot1p *number*
Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dot1p-value**] *number*

Synopsis	Dot1p value to match in the packet
Context	**configure** qos sap-egress *qos-policy-name* dot1p *number*
Tree	dot1p
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos sap-egress *qos-policy-name* dot1p *number* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2

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Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the ingressing traffic
Context	**configure** qos sap-egress *qos-policy-name* dot1p *number* profile *keyword*
Tree	profile
Options	in, out, de, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp [dscp-name] *keyword*

Synopsis	Enter the **dscp** list instance
Context	**configure** qos sap-egress *qos-policy-name* dscp *keyword*
Tree	dscp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-name**] *keyword*

Synopsis	DSCP name to perform reclassification actions
Context	**configure** qos sap-egress *qos-policy-name* dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class

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Context	**configure** qos sap-egress *qos-policy-name* dscp *keyword* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the ingressing traffic
Context	**configure** qos sap-egress *qos-policy-name* dscp *keyword* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

ethernet-ctag *boolean*

Synopsis	Tag value for dot1p and DE (Drop-Eligible) that are used by all dot1-p entries
Context	**configure** qos sap-egress *qos-policy-name* ethernet-ctag *boolean*
Tree	ethernet-ctag
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fc [fc-name] *keyword*

Synopsis	Enter the **fc** list instance
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword*
Tree	fc
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**fc-name**] *keyword*

Synopsis	Forwarding class
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

de-mark

Synopsis	Enable the **de-mark** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* de-mark
Tree	de-mark
Introduced	25.3.R2
Platforms	SAR Gen 2

force *number*

Synopsis	DE value
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* de-mark force *number*
Tree	force
Range	0 to 1
Introduced	25.3.R2
Platforms	SAR Gen 2

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de-mark-inner

Synopsis	Enable the **de-mark-inner** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* de-mark-inner
Tree	de-mark-inner
Introduced	25.3.R2
Platforms	SAR Gen 2

force *number*

Synopsis	DE value to set in inner VLAN tag
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* de-mark-inner force *number*
Tree	force
Range	0 to 1
Introduced	25.3.R2
Platforms	SAR Gen 2

de-mark-outer

Synopsis	Enable the **de-mark-outer** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* de-mark-outer
Tree	de-mark-outer
Introduced	25.3.R2
Platforms	SAR Gen 2

force *number*

Synopsis	DE value to set in outer VLAN tag
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* de-mark-outer force *number*
Tree	force
Range	0 to 1
Introduced	25.3.R2
Platforms	SAR Gen 2

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dot1p

Synopsis	Enter the **dot1p** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p
Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile *number*

Synopsis	Dot1p value for exceed-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p exceed-profile *number*
Tree	exceed-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile *number*

Synopsis	Dot1p value for in-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p in-profile *number*
Tree	in-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile *number*

Synopsis	Dot1p value for out-of-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p out-profile *number*
Tree	out-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

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dot1p-inner

Synopsis	Enter the **dot1p-inner** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-inner
Tree	dot1p-inner
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile *number*

Synopsis	Inner Dot1p value for in-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-inner in-profile *number*
Tree	in-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile *number*

Synopsis	Inner Dot1p value for out-of-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-inner out-profile *number*
Tree	out-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p-outer

Synopsis	Enter the **dot1p-outer** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-outer
Tree	dot1p-outer
Introduced	25.3.R2
Platforms	SAR Gen 2

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exceed-profile *number*

Synopsis	Outer Dot1p value for exceed-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-outer exceed-profile *number*
Tree	exceed-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile *number*

Synopsis	Outer Dot1p value for in-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-outer in-profile *number*
Tree	in-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile *number*

Synopsis	Outer Dot1p value for out-of-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dot1p-outer out-profile *number*
Tree	out-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp

Synopsis	Enter the **dscp** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dscp
Tree	dscp
Notes	The following elements are part of a choice: **dscp** or **prec**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

exceed-profile *keyword*

Synopsis	DSCP name for exceed-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dscp exceed-profile *keyword*
Tree	exceed-profile
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile *keyword*

Synopsis	DSCP name for in-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dscp in-profile *keyword*
Tree	in-profile
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile *keyword*

Synopsis	DSCP name for out-of-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* dscp out-profile *keyword*
Tree	out-profile
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2

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Platforms	SAR Gen 2

policer *reference*

Synopsis	Policer to forward the traffic
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group-queue

Synopsis	Enable the **port-redirect-group-queue** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* port-redirect-group-queue
Tree	port-redirect-group-queue
Notes	The following elements are part of a choice: **port-redirect-group-queue**, **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *number*

Synopsis	Queue to forward the traffic
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* port-redirect-group-queue queue *number*
Tree	queue
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

prec

Synopsis	Enter the **prec** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* prec
Tree	prec

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Notes	The following elements are part of a choice: **dscp** or **prec**.
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-profile *number*

Synopsis	Precedence for exceed-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* prec exceed-profile *number*
Tree	exceed-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

in-profile *number*

Synopsis	Precedence value for in-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* prec in-profile *number*
Tree	in-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

out-profile *number*

Synopsis	Precedence value for out-of-profile frames
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* prec out-profile *number*
Tree	out-profile
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Queue to forward the traffic
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* queue *reference*

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Tree	queue
Reference	**configure** qos sap-egress *qos-policy-name* queue *number*
Notes	The following elements are part of a choice: **port-redirect-group-queue**, **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group-queue

Synopsis	Enable the **queue-group-queue** context
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* queue-group-queue
Tree	queue-group-queue
Notes	The following elements are part of a choice: **port-redirect-group-queue**, **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance ID
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* queue-group-queue instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	SAP egress queue ID
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* queue-group-queue queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates egress queue-group *named-item* queue *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-group-name *reference*

Synopsis	Queue group to forward traffic
Context	**configure** qos sap-egress *qos-policy-name* fc *keyword* queue-group-queue queue-group-name *reference*
Tree	queue-group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-criteria

Synopsis	Enter the **ip-criteria** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria
Tree	ip-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IP Criteria Entry Index
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *reference*

Synopsis	Policer identifier for the matched traffic
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-redirect-group-queue *boolean*

Synopsis	Use queue specified in egress access port queue group
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action port-redirect-group-queue *boolean*
Tree	port-redirect-group-queue
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the matching traffic
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *number*

Synopsis	Queue used for matched traffic policed by local policer
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action queue *number*
Tree	queue
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept

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Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

use-fc-mapped-queue *boolean*

Synopsis	Redirect policer output to the configured queues
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* action use-fc-mapped-queue *boolean*
Tree	use-fc-mapped-queue
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP value to match in the packet

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Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Destination IPv4 address for SAP QoS policy match
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	List of IPv4 prefixes for the match criteria
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-ip ip-prefix-list *reference*
Tree	ip-prefix-list

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Reference	**configure** qos match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IP address mask to match with source IP of the packet
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gt *number*

Synopsis	Value 'greater than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range

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Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmented packets as the match criterion
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match fragment *keyword*
Tree	fragment
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp

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Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Source IPv4 address for SAP QoS policy match criterion
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	List of IPv4 prefixes for the match criteria
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** qos match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mask *ipv4-address*

Synopsis	IP address mask to match with source IP of the packet
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port gt *number*

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Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2

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Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** qos sap-egress *qos-policy-name* ip-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-criteria

Synopsis	Enter the **ipv6-criteria** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria
Tree	ipv6-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IP Criteria Entry Index
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *reference*

Synopsis	Policer identifier for the matched traffic
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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port-redirect-group-queue *boolean*

Synopsis	Use queue specified in egress access port queue group
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action port-redirect-group-queue *boolean*
Tree	port-redirect-group-queue
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the matching traffic
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *number*

Synopsis	Queue used for matched traffic policed by local policer
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action queue *number*
Tree	queue
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action type *keyword*
Tree	type

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Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

use-fc-mapped-queue *boolean*

Synopsis	Redirect policer output to the configured queues
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* action use-fc-mapped-queue *boolean*
Tree	use-fc-mapped-queue
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

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dscp *keyword*

Synopsis	DSCP value to match in the packet
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-ip
Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	Destination IPv6 address for SAP QoS policy match
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address mask to match with destination IP of packet

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Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range

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Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match next-header *(number | keyword)*
Tree	next-header
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	Source IPv6 address for SAP QoS policy match
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address mask to match with source IP of the packet
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' as match condition

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Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' as match condition
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535

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Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** qos sap-egress *qos-policy-name* ipv6-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

parent-location *keyword*

Synopsis	Location where queues look to find parent scheduler
Context	**configure** qos sap-egress *qos-policy-name* parent-location *keyword*
Tree	parent-location
Options	auto, sla
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *number*

Synopsis	Enter the **policer** list instance
Context	**configure** qos sap-egress *qos-policy-name* policer *number*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *number*

Synopsis	SAP egress policer ID
Context	**configure** qos sap-egress *qos-policy-name* policer *number*

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Tree	policer
Range	1 to 63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** qos sap-egress *qos-policy-name* policer *number* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** qos sap-egress *qos-policy-name* policer *number* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Default	closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** qos sap-egress *qos-policy-name* policer *number* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Default	closest
Introduced	25.3.R2
Platforms	SAR Gen 2

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arbiter-parent

Synopsis	Enter the **arbiter-parent** context
Context	**configure** qos sap-egress *qos-policy-name* policer *number* arbiter-parent
Tree	arbiter-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-name *named-item*

Synopsis	Arbiter name
Context	**configure** qos sap-egress *qos-policy-name* policer *number* arbiter-parent arbiter-name *named-item*
Tree	arbiter-name
Description	This command specifies an arbiter name. The policer is intended to become a child to one of the tiered arbiters with the specified arbiter name where an instance of the policer is created. If the specified arbiter name does not exist, the policer is placed in the orphan state.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos sap-egress *qos-policy-name* policer *number* arbiter-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used by the arbiter for feeding the policer

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Context	**configure** qos sap-egress *qos-policy-name* policer *number* arbiter-parent weight *number*
Tree	weight
Range	1 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Exceed threshold of the CIR leaky bucket of the policer
Context	**configure** qos sap-egress *qos-policy-name* policer *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-egress *qos-policy-name* policer *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp-prec-remarking *boolean*

Synopsis	Remark DSCP/precedence based on packet profile state
Context	**configure** qos sap-egress *qos-policy-name* policer *number* dscp-prec-remarking *boolean*

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Tree	dscp-prec-remarking
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-pir *boolean*

Synopsis	Forward packets exceeding the PIR as exceed-profile
Context	**configure** qos sap-egress *qos-policy-name* policer *number* exceed-pir *boolean*
Tree	exceed-pir
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

high-prio-only *(number | keyword)*

Synopsis	Percentage of MBS reserved for high priority traffic
Context	**configure** qos sap-egress *qos-policy-name* policer *number* high-prio-only *(number | keyword)*
Tree	high-prio-only
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum burst tolerance allowed by the policer
Context	**configure** qos sap-egress *qos-policy-name* policer *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Default	auto

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Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** qos sap-egress *qos-policy-name* policer *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos sap-egress *qos-policy-name* policer *number* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	Administrative CIR percent
Context	**configure** qos sap-egress *qos-policy-name* policer *number* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *decimal-number*

Synopsis	Administrative PIR percent
Context	**configure** qos sap-egress *qos-policy-name* policer *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos sap-egress *qos-policy-name* policer *number* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	local-limit, reference-port-limit
Default	local-limit
Introduced	25.7.R1
Platforms	SAR Gen 2

port-parent

Synopsis	Enable the **port-parent** context
Context	**configure** qos sap-egress *qos-policy-name* policer *number* port-parent
Tree	port-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Port priority level for within-CIR offered load
Context	**configure** qos sap-egress *qos-policy-name* policer *number* port-parent cir-level *number*
Tree	cir-level

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Description	This command defines the port priority that the policer uses to receive bandwidth for its within-CIR offered load. If this command is set to the default value, the policer does not receive bandwidth during the port schedulers with-CIR pass and the **cir-weight** command is ignored.
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight to use in the within-CIR port priority level
Context	**configure** qos sap-egress *qos-policy-name* policer *number* port-parent cir-weight *number*
Tree	cir-weight
Description	This command defines the weight that the policer uses at the within-CIR port priority level. All CIR weight values from all weighted active policers, queues, and schedulers with a common port parent are added together. Each individual active weight is then divided by the total to determine the percentage of remaining bandwidth provided to the policer, queue, or scheduler after the higher priority level children have been serviced. A weight is considered active when the applicable policer, queue, or scheduler has not reached its maximum rate and still has packets to transmit. When this command is set to the default value, the policer receives bandwidth only after other children with a non-zero weight at this level have been serviced.
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Port priority level for above-CIR behavior
Context	**configure** qos sap-egress *qos-policy-name* policer *number* port-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

weight *number*

Synopsis	Weight to use in the above-CIR port priority level
Context	**configure** qos sap-egress *qos-policy-name* policer *number* port-parent weight *number*
Tree	weight
Description	This command defines the weight that the policer uses at the above-CIR port priority level. All weight values from all weighted active policers, queues, and schedulers with a common port parent are added together. Each individual active weight is then divided by the total to determine the percentage of remaining bandwidth provided to the policer, queue, or scheduler after the higher priority level children have been serviced. A weight is considered to be active when the applicable policer, queue, or scheduler has not reached its maximum rate and still has packets to transmit. When this command is set to a value of 0, the policer receives bandwidth only after other children with a non-zero weight at this level.
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

profile-capped *boolean*

Synopsis	Enforce overall in-profile burst limit to CIR bucket
Context	**configure** qos sap-egress *qos-policy-name* policer *number* profile-capped *boolean*
Tree	profile-capped
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

profile-out-preserve *boolean*

Synopsis	Preserve the color of offered out-of-profile traffic
Context	**configure** qos sap-egress *qos-policy-name* policer *number* profile-out-preserve *boolean*
Tree	profile-out-preserve
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos sap-egress *qos-policy-name* policer *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos sap-egress *qos-policy-name* policer *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos sap-egress *qos-policy-name* policer *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

scheduler-parent

Synopsis	Enable the **scheduler-parent** context
Context	**configure** qos sap-egress *qos-policy-name* policer *number* scheduler-parent
Tree	scheduler-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Port priority level for within-CIR offered load
Context	**configure** qos sap-egress *qos-policy-name* policer *number* scheduler-parent cir-level *number*
Tree	cir-level
Description	This command defines the hierarchy priority level when compared with other policers, queues, and schedulers that the policer uses to receive bandwidth for its within-CIR offered load. If this command is set to the default value, the policer does not receive bandwidth during the schedulers within-CIR pass and the **cir-weight** command is ignored.
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight to use in the within-CIR port priority level
Context	**configure** qos sap-egress *qos-policy-name* policer *number* scheduler-parent cir-weight *number*
Tree	cir-weight
Description	The command defines the relative weight of the policer in comparison with other child policers, queues, or schedulers competing for bandwidth on the parent scheduler name at the within-CIR priority level. A weight is considered to be active when the applicable policer, queue, or scheduler has not reached its maximum rate and still has packets to transmit.

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When this command is set to a value of 0, the policer receives bandwidth only after the other children with a non-zero weight at this level have been serviced.

Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Priority level for bandwidth on the parent scheduler
Context	**configure** qos sap-egress *qos-policy-name* policer *number* scheduler-parent level *number*
Tree	level
Description	This command defines the priority level when compared with other policers, queues, and schedulers when competing for bandwidth on the parent scheduler. Children of the parent scheduler with a lower priority do not receive bandwidth until all children with a higher priority have either reached their maximum bandwidth or are idle. Children with the same level are serviced in relation to their relative weights.
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-name *named-item*

Synopsis	Scheduler name
Context	**configure** qos sap-egress *qos-policy-name* policer *number* scheduler-parent scheduler-name *named-item*
Tree	scheduler-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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weight *number*

Synopsis	Policer weight at the above-CIR priority level
Context	**configure** qos sap-egress *qos-policy-name* policer *number* scheduler-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** qos sap-egress *qos-policy-name* policer *number* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Default	minimal
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Egress SAP QoS policy ID
Context	**configure** qos sap-egress *qos-policy-name* policy-id *number*
Tree	policy-id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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prec [prec-value] *number*

Synopsis	Enter the **prec** list instance
Context	**configure** qos sap-egress *qos-policy-name* prec *number*
Tree	prec
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prec-value**] *number*

Synopsis	Precedence value for which mapping is performed
Context	**configure** qos sap-egress *qos-policy-name* prec *number*
Tree	prec
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** qos sap-egress *qos-policy-name* prec *number* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Default profile for the ingressing traffic

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Context	**configure** qos sap-egress *qos-policy-name* prec *number* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *number*

Synopsis	Enter the **queue** list instance
Context	**configure** qos sap-egress *qos-policy-name* queue *number*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *number*

Synopsis	Egress Queue-Group queue identifier
Context	**configure** qos sap-egress *qos-policy-name* queue *number*
Tree	queue
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-frame-overhead *decimal-number*

Synopsis	Average packet-to-frame encapsulation overhead
Context	**configure** qos sap-egress *qos-policy-name* queue *number* avg-frame-overhead *decimal-number*
Tree	avg-frame-overhead
Description	This command configures the average frame overhead, expressed as a percentage, at which the offered load expands on the physical medium (wire) at egress. This is important for accurate "on-the-wire" rate calculations at various levels of H-QoS that do not inherently account for the physical medium characteristics. For example, without considering this overhead, a port-scheduler in H-QoS might inaccurately estimate the available bandwidth on the wire, potentially leading to congestion issues and unexpected packet loss.

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The rates impacted by the average frame overhead encompass the rates set on port-schedulers and aggregate rate limits for subscribers and Vports. This impact is evident in the configured values, which represent on-the-wire (OTW) rates. Queue configured rates, however, remain unaffected by this adjustment and continue to reflect Layer 2 rates.

Configure the average frame overhead in networks with physical mediums that have constant sizes of transmission units (packets or cells) or in scenarios where the average packet size is known.

The average frame overhead only affects rate and weight calculations and does not impact collected statistics for accounting purposes.

For Ethernet ports, the effect of this command depends on the setting of the **avg-frame-overhead-mode** command in advanced QoS configuration policy associated with the queue. If the **avg-frame-overhead-mode** is set to **auto**, the packet encapsulation overhead calculation is based on a fixed 20 bytes (7 bytes for preamble, 1 byte for start of frame delimiter and 12 bytes for Inter-Frame Gap) that Ethernet medium adds to every packet during transmission. In other words, the configured rates for port-scheduler and aggregate rate limits for subscribers and Vports represent OTW rates.

Range	0.00 to 100.00
Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

burst-limit *(number | keyword)*

Synopsis	Explicit shaping burst size of a queue
Context	**configure** qos sap-egress *qos-policy-name* queue *number* burst-limit *(number | keyword)*
Tree	burst-limit
Range	1 to 14000000
Units	bytes
Options	auto
Default	auto
Notes	The following elements are part of a choice: **burst-limit** or **burst-limit-delay-time**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Reserved buffer space for the queue

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Context	**configure** qos sap-egress *qos-policy-name* queue *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Default	auto
Notes	The following elements are part of a choice: **cbs**, **cbs-delay-percent**, or **cbs-delay-time**.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed

Synopsis	Enter the **exceed** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail exceed
Tree	exceed
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail exceed percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto

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Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail high percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

highplus

Synopsis	Enter the **highplus** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail highplus
Tree	highplus
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail

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Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail highplus percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Low drop-tail percent from MBS that is reduced
Context	**configure** qos sap-egress *qos-policy-name* queue *number* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Buffer space allowed for the queue
Context	**configure** qos sap-egress *qos-policy-name* queue *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624

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Units	bytes
Options	auto
Default	auto
Notes	The following elements are part of a choice: **mbs**, **mbs-delay-percent**, or **mbs-delay-time**.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet byte offset for addition of policing information
Context	**configure** qos sap-egress *qos-policy-name* queue *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 32
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	Administrative CIR percent
Context	**configure** qos sap-egress *qos-policy-name* queue *number* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Default	0.00

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Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Administrative PIR percent
Context	**configure** qos sap-egress *qos-policy-name* queue *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos sap-egress *qos-policy-name* queue *number* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	port-limit, local-limit, reference-port-limit
Default	port-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

port-parent

Synopsis	Enable the **port-parent** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* port-parent
Tree	port-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Port priority to receive bandwidth for within-CIR pass

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Context	**configure** qos sap-egress *qos-policy-name* queue *number* port-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos sap-egress *qos-policy-name* queue *number* port-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Port priority for bandwidth for above-CIR offered load
Context	**configure** qos sap-egress *qos-policy-name* queue *number* port-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used at above-CIR port priority level
Context	**configure** qos sap-egress *qos-policy-name* queue *number* port-parent weight *number*
Tree	weight
Range	0 to 100
Default	1

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Introduced	25.3.R2
Platforms	SAR Gen 2

queue-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Method used to service queue from hardware perspective
Context	**configure** qos sap-egress *qos-policy-name* queue *number* queue-type *keyword*
Tree	queue-type
Options	expedited, auto-expedited, best-effort
Default	auto-expedited
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos sap-egress *qos-policy-name* queue *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos sap-egress *qos-policy-name* queue *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-parent

Synopsis	Enable the **scheduler-parent** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* scheduler-parent
Tree	scheduler-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos sap-egress *qos-policy-name* queue *number* scheduler-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos sap-egress *qos-policy-name* queue *number* scheduler-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos sap-egress *qos-policy-name* queue *number* scheduler-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-name *named-item*

Synopsis	Parent scheduler name
Context	**configure** qos sap-egress *qos-policy-name* queue *number* scheduler-parent scheduler-name *named-item*
Tree	scheduler-name
Description	This command associates a scheduler name to a queue. The scheduler name must have previously been defined within an existing scheduler policy and exist on each SAP the queue is created on. There are no checks performed to ensure that the scheduler name exists within an existing scheduler policy. Until the scheduler name exists on the egress SAP, the queue operates in an orphaned state.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used by the scheduler for feeding the queue
Context	**configure** qos sap-egress *qos-policy-name* queue *number* scheduler-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

wred-queue

Synopsis	Enter the **wred-queue** context
Context	**configure** qos sap-egress *qos-policy-name* queue *number* wred-queue
Tree	wred-queue
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Pool association to allow queue-specific WRED slopes
Context	**configure** qos sap-egress *qos-policy-name* queue *number* wred-queue mode *keyword*
Tree	mode
Options	native, pool-per-queue
Introduced	25.3.R2
Platforms	SAR Gen 2

usage *keyword*

Synopsis	Congestion control type
Context	**configure** qos sap-egress *qos-policy-name* queue *number* wred-queue usage *keyword*
Tree	usage

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Options	auto, exceed-low
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	Scope of the policy
Context	**configure** qos sap-egress *qos-policy-name* scope *keyword*
Tree	scope
Options	exclusive – Allow policy to be assigned to only one port template – Allow policy to be assigned to multiple ports
Default	template
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-ingress [sap-ingress-policy-name] *qos-policy-name*

Synopsis	Enter the **sap-ingress** list instance
Context	**configure** qos sap-ingress *qos-policy-name*
Tree	sap-ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-ingress-policy-name**] *qos-policy-name*

Synopsis	Policy name
Context	**configure** qos sap-ingress *qos-policy-name*
Tree	sap-ingress
String length	1 to 64
String format	'qos-policy-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-fc *sap-ingress-fc-name*

Synopsis	Default forwarding class for non-matching traffic
Context	**configure** qos sap-ingress *qos-policy-name* default-fc *sap-ingress-fc-name*
Tree	default-fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

default-priority *keyword*

Synopsis	Priority for packets received on an ingress SAP
Context	**configure** qos sap-ingress *qos-policy-name* default-priority *keyword*
Tree	default-priority
Options	low, high
Default	low
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-ingress *qos-policy-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p [dot1p-value] *number*

Synopsis	Enter the **dot1p** list instance
Context	**configure** qos sap-ingress *qos-policy-name* dot1p *number*

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Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dot1p-value**] *number*

Synopsis	Dot1p value to match in the packet
Context	**configure** qos sap-ingress *qos-policy-name* dot1p *number*
Tree	dot1p
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *sap-ingress-fc-name*

Synopsis	Forwarding class for traffic matching specified dot1p
Context	**configure** qos sap-ingress *qos-policy-name* dot1p *number* fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *keyword*

Synopsis	Priority for packets that match the Dot1p value
Context	**configure** qos sap-ingress *qos-policy-name* dot1p *number* priority *keyword*
Tree	priority
Options	low, high, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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dscp [dscp-name] *keyword*

Synopsis	Enter the **dscp** list instance
Context	**configure** qos sap-ingress *qos-policy-name* dscp *keyword*
Tree	dscp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-name**] *keyword*

Synopsis	Name for the Differentiated Services Code Point (DSCP)
Context	**configure** qos sap-ingress *qos-policy-name* dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *sap-ingress-fc-name*

Synopsis	Forwarding class for traffic matching specified DSCP
Context	**configure** qos sap-ingress *qos-policy-name* dscp *keyword* fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *keyword*

Synopsis	Priority for the packet
Context	**configure** qos sap-ingress *qos-policy-name* dscp *keyword* priority *keyword*

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Tree	priority
Options	low, high, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

fc [fc-name] *sap-ingress-fc-name*

Synopsis	Enter the **fc** list instance
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name*
Tree	fc
Introduced	25.3.R2
Platforms	SAR Gen 2

[**fc-name**] *sap-ingress-fc-name*

Synopsis	Forwarding class (and optional subclass) name
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast-policer *number*

Synopsis	Policer ID for multicast traffic in forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* broadcast-policer *number*
Tree	broadcast-policer
Range	1 to 63
Notes	The following elements are part of a choice: (**broadcast-policer** and **fp-redirect-group-broadcast-policer**), **broadcast-queue**, or **broadcast-queue-group-queue**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

broadcast-queue *reference*

Synopsis	Broadcast queue for packets in the forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* broadcast-queue *reference*
Tree	broadcast-queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	The following elements are part of a choice: (**broadcast-policer** and **fp-redirect-group-broadcast-policer**), **broadcast-queue**, or **broadcast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast-queue-group-queue

Synopsis	Enable the **broadcast-queue-group-queue** context
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* broadcast-queue-group-queue
Tree	broadcast-queue-group-queue
Notes	The following elements are part of a choice: (**broadcast-policer** and **fp-redirect-group-broadcast-policer**), **broadcast-queue**, or **broadcast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Broadcast queue for packets in the forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* broadcast-queue-group-queue queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-group-name *reference*

Synopsis	Queue group name to forward traffic
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* broadcast-queue-group-queue queue-group-name *reference*
Tree	queue-group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

de-1-out-profile *boolean*

Synopsis	Frames with DE value to be assigned as out of profile
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* de-1-out-profile *boolean*
Tree	de-1-out-profile
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-fc *keyword*

Synopsis	Forwarding class for egress QoS processing
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* egress-fc *keyword*
Tree	egress-fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

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fp-redirect-group-broadcast-policer

Synopsis	Use policer as defined in FP queue-group for the SAP
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* fp-redirect-group-broadcast-policer
Tree	fp-redirect-group-broadcast-policer
Notes	The following elements are part of a choice: (**broadcast-policer** and **fp-redirect-group-broadcast-policer**), **broadcast-queue**, or **broadcast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group-multicast-policer

Synopsis	Use policer as defined in FP queue-group for the SAP
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* fp-redirect-group-multicast-policer
Tree	fp-redirect-group-multicast-policer
Notes	The following elements are part of a choice: (**fp-redirect-group-multicast-policer** and **multicast-policer**), **multicast-queue**, or **multicast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group-policer

Synopsis	Use policer as defined in FP queue-group for the SAP
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* fp-redirect-group-policer
Tree	fp-redirect-group-policer
Notes	The following elements are part of a choice: (**fp-redirect-group-policer** and **policer**), **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group-unknown-policer

Synopsis	Use policer as defined in FP queue-group for the SAP

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Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* fp-redirect-group-unknown-policer
Tree	fp-redirect-group-unknown-policer
Notes	The following elements are part of a choice: (**fp-redirect-group-unknown-policer** and **unknown-policer**), **unknown-queue**, or **unknown-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

in-remark

Synopsis	Enter the **in-remark** context
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* in-remark
Tree	in-remark
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP to override DSCP bits of the matching packet
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* in-remark dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	The following elements are part of a choice: **dscp** or **prec**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prec *number*

Synopsis	Value to override precedence bits of matching packet
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* in-remark prec *number*
Tree	prec

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Range	0 to 7
Notes	The following elements are part of a choice: **dscp** or **prec**.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-policer *number*

Synopsis	Policer ID for multicast traffic in forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* multicast-policer *number*
Tree	multicast-policer
Range	1 to 63
Notes	The following elements are part of a choice: (**fp-redirect-group-multicast-policer** and **multicast-policer**), **multicast-queue**, or **multicast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-queue *reference*

Synopsis	Broadcast queue to assign for packets in this forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* multicast-queue *reference*
Tree	multicast-queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	The following elements are part of a choice: (**fp-redirect-group-multicast-policer** and **multicast-policer**), **multicast-queue**, or **multicast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-queue-group-queue

Synopsis	Enable the **multicast-queue-group-queue** context
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* multicast-queue-group-queue
Tree	multicast-queue-group-queue

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Notes	The following elements are part of a choice: (**fp-redirect-group-multicast-policer** and **multicast-policer**), **multicast-queue**, or **multicast-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Broadcast queue for packets in the forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* multicast-queue-group-queue queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group-name *reference*

Synopsis	Queue group name to forward traffic
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* multicast-queue-group-queue queue-group-name *reference*
Tree	queue-group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

out-remark

Synopsis	Enter the **out-remark** context
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* out-remark
Tree	out-remark
Introduced	25.3.R2
Platforms	SAR Gen 2

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dscp *keyword*

Synopsis	DSCP to override DSCP bits of the matching packet
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* out-remark dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	The following elements are part of a choice: **dscp** or **prec**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prec *number*

Synopsis	Value to override precedence bits of matching packet
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* out-remark prec *number*
Tree	prec
Range	0 to 7
Notes	The following elements are part of a choice: **dscp** or **prec**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer *number*

Synopsis	Policer ID for unicast traffic in the forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* policer *number*
Tree	policer
Range	1 to 63
Notes	The following elements are part of a choice: (**fp-redirect-group-policer** and **policer**), **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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profile *keyword*

Synopsis	Packets profile associated with the forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* profile *keyword*
Tree	profile
Options	in, out, exceed, inplus
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Queue to assign for packets in this forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* queue *reference*
Tree	queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	The following elements are part of a choice: (**fp-redirect-group-policer** and **policer**), **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group-queue

Synopsis	Enable the **queue-group-queue** context
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* queue-group-queue
Tree	queue-group-queue
Notes	The following elements are part of a choice: (**fp-redirect-group-policer** and **policer**), **queue**, or **queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Queue to assign for packets in this forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* queue-group-queue queue *reference*
Tree	queue

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Reference	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group-name *reference*

Synopsis	Queue group to forward traffic
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* queue-group-queue queue-group-name *reference*
Tree	queue-group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-policer *number*

Synopsis	Policer ID for multicast traffic in forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* unknown-policer *number*
Tree	unknown-policer
Range	1 to 63
Notes	The following elements are part of a choice: (**fp-redirect-group-unknown-policer** and **unknown-policer**), **unknown-queue**, or **unknown-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-queue *reference*

Synopsis	Broadcast queue to assign for packets in this forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* unknown-queue *reference*
Tree	unknown-queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*

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Notes	The following elements are part of a choice: (**fp-redirect-group-unknown-policer** and **unknown-policer**), **unknown-queue**, or **unknown-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-queue-group-queue

Synopsis	Enable the **unknown-queue-group-queue** context
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* unknown-queue-group-queue
Tree	unknown-queue-group-queue
Notes	The following elements are part of a choice: (**fp-redirect-group-unknown-policer** and **unknown-policer**), **unknown-queue**, or **unknown-queue-group-queue**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue *reference*

Synopsis	Broadcast queue for packets in the forwarding class
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* unknown-queue-group-queue queue *reference*
Tree	queue
Reference	**configure** qos queue-group-templates ingress queue-group *named-item* queue *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-group-name *reference*

Synopsis	Queue group name to forward traffic
Context	**configure** qos sap-ingress *qos-policy-name* fc *sap-ingress-fc-name* unknown-queue-group-queue queue-group-name *reference*
Tree	queue-group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ip-criteria

Synopsis	Enter the **ip-criteria** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria
Tree	ip-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IP criteria entry to create or edit for the policy
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

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fc *sap-ingress-fc-name*

Synopsis	Forwarding class for traffic matching the criteria
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* action fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *keyword*

Synopsis	Priority for the packet
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* action priority *keyword*
Tree	priority
Options	low, high, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP value to match in the packet
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-ip

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Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Destination IPv4 address for SAP QoS policy match
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IP-prefix list as match criterion
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** qos match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match dst-port range start *number*

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Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmented packets as the match criterion
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match fragment *keyword*
Tree	fragment
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-prefix-with-host-bits | ipv4-address)*

Synopsis	Source IPv4 address for SAP QoS policy match criterion
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-ip address *(ipv4-prefix-with-host-bits | ipv4-address)*
Tree	address
String format	'ipv4-prefix-with-host-bits' must be a.b.c.d/prefix with prefix length 0..32 'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IP-prefix list as match criterion
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-ip ip-prefix-list *reference*
Tree	ip-prefix-list
Reference	**configure** qos match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port lt *number*
Tree	lt

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Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ip-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-criteria

Synopsis	Enter the **ipv6-criteria** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria
Tree	ipv6-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IPv6 criteria entry to create or edit for the policy
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action

Synopsis	Enter the **action** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

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fc *sap-ingress-fc-name*

Synopsis	Forwarding class for traffic matching the criteria
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* action fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *keyword*

Synopsis	Priority for the packet
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* action priority *keyword*
Tree	priority
Options	low, high, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* action type *keyword*
Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

Synopsis	DSCP value to match in the packet
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-ip

Synopsis	Enter the **dst-ip** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-ip

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Tree	dst-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv6 address to match destination IP of the packet
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address to match with source IP of the packet
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enter the **dst-port** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

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eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context

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Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match dst-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

fragment *keyword*

Synopsis	Fragmented packets as the match criterion
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match fragment *keyword*
Tree	fragment
Options	false, true, first-only, non-first-only
Introduced	25.3.R2
Platforms	SAR Gen 2

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next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match next-header *(number | keyword)*
Tree	next-header
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-ip
Tree	src-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix-with-host-bits | ipv6-address)*

Synopsis	IPv4 address to match
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-ip address *(ipv6-prefix-with-host-bits | ipv6-address)*
Tree	address
String format	'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128 'ipv6-prefix-with-host-bits' must be IPv6 address/prefix with length 0..128
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address to match with source IP of the packet

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Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enter the **src-port** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Value 'equal to' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port eq *number*
Tree	eq
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Value 'greater than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port gt *number*
Tree	gt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lt *number*

Synopsis	Value 'less than' assigned as match condition
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port lt *number*
Tree	lt
Range	0 to 65535
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the port range
Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port range end *number*
Tree	end
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the port range

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Context	**configure** qos sap-ingress *qos-policy-name* ipv6-criteria entry *number* match src-port range start *number*
Tree	start
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-criteria

Synopsis	Enter the **mac-criteria** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria
Tree	mac-criteria
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Entry ID
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number*
Tree	entry
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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action

Synopsis	Enter the **action** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* action
Tree	action
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *sap-ingress-fc-name*

Synopsis	Forwarding class for traffic matching the criteria
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* action fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *keyword*

Synopsis	Priority for the packet
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* action priority *keyword*
Tree	priority
Options	low, high, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Action for criteria entry
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* action type *keyword*

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Tree	type
Options	ignore-match, accept
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p

Synopsis	Enable the **dot1p** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match dot1p
Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

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mask *number*

Synopsis	3-bit mask for the 802.1p value
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match dot1p mask *number*
Tree	mask
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	802.1P priority value to use as the match criterion
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match dot1p priority *number*
Tree	priority
Range	0 to 7
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-mac

Synopsis	Enable the **dst-mac** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match dst-mac
Tree	dst-mac
Introduced	25.3.R2
Platforms	SAR Gen 2

address *mac-address*

Synopsis	Destination MAC address as QoS policy match criterion
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match dst-mac address *mac-address*
Tree	address

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *mac-address*

Synopsis	Mask for destination MAC address
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match dst-mac mask *mac-address*
Tree	mask
Default	ff:ff:ff:ff:ff:ff
Introduced	25.3.R2
Platforms	SAR Gen 2

etype *etype-value*

Synopsis	Ethernet type
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match etype *etype-value*
Tree	etype
String length	5 to 6
String format	'etype-value' must be 0x0600-0xFFFF (e-type range)
Introduced	25.3.R2
Platforms	SAR Gen 2

frame-type *keyword*

Synopsis	Match MAC criteria for ingress SAP QoS policy
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match frame-type *keyword*
Tree	frame-type
Options	802dot3, 802dot2-llc, 802dot2-snap, ethernet-ii
Introduced	25.3.R2
Platforms	SAR Gen 2

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inner-tag

Synopsis	Enable the **inner-tag** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match inner-tag
Tree	inner-tag
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	Mask to VID of the inner VLAN tag before comparing it with the inner-tag or outer-tag value
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match inner-tag mask *number*
Tree	mask
Range	1 to 4095
Default	4095
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan *number*

Synopsis	Value to match against the VID of the second VLAN tag
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match inner-tag vlan *number*
Tree	vlan
Range	0 to 4095
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

llc-dsap

Synopsis	Enable the **llc-dsap** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match llc-dsap
Tree	llc-dsap

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Introduced	25.3.R2
Platforms	SAR Gen 2

dsap *number*

Synopsis	DSAP value
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match llc-dsap dsap *number*
Tree	dsap
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	DSAP mask
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match llc-dsap mask *number*
Tree	mask
Range	0 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

llc-ssap

Synopsis	Enable the **llc-ssap** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match llc-ssap
Tree	llc-ssap
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	Source SAP mask

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Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match llc-ssap mask *number*
Tree	mask
Range	0 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

ssap *number*

Synopsis	SSAP value
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match llc-ssap ssap *number*
Tree	ssap
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

outer-tag

Synopsis	Enable the **outer-tag** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match outer-tag
Tree	outer-tag
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	First tag carried transparently through the service
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match outer-tag mask *number*
Tree	mask
Range	1 to 4095
Default	4095
Introduced	25.3.R2

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Platforms	SAR Gen 2

vlan *number*

Synopsis	Match against VID of the first VLAN tag in the packet carried transparently through service
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match outer-tag vlan *number*
Tree	vlan
Range	0 to 4095
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

snap-oui *keyword*

Synopsis	Parameter snap-oui as MAC filter match criteria
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match snap-oui *keyword*
Tree	snap-oui
Options	zero, non-zero
Introduced	25.3.R2
Platforms	SAR Gen 2

snap-pid *number*

Synopsis	Parameter snap-pid as MAC filter match criteria
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match snap-pid *number*
Tree	snap-pid
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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src-mac

Synopsis	Enable the **src-mac** context
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match src-mac
Tree	src-mac
Introduced	25.3.R2
Platforms	SAR Gen 2

address *mac-address*

Synopsis	Source MAC address as QoS policy match criterion
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match src-mac address *mac-address*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *mac-address*

Synopsis	Mask for source MAC address
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria entry *number* match src-mac mask *mac-address*
Tree	mask
Default	ff:ff:ff:ff:ff:ff
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	MAC criteria filter type
Context	**configure** qos sap-ingress *qos-policy-name* mac-criteria type *keyword*

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Tree	type
Options	normal, vid
Default	normal
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *number*

Synopsis	Enter the **policer** list instance
Context	**configure** qos sap-ingress *qos-policy-name* policer *number*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *number*

Synopsis	SAP-ingress policer identifier
Context	**configure** qos sap-ingress *qos-policy-name* policer *number*
Tree	policer
Range	1 to 63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-parent

Synopsis	Enter the **arbiter-parent** context
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* arbiter-parent
Tree	arbiter-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

arbiter-name *named-item*

Synopsis	Arbiter name

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Context	**configure** qos sap-ingress *qos-policy-name* policer *number* arbiter-parent arbiter-name *named-item*
Tree	arbiter-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* arbiter-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used by the arbiter for feeding the policer
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* arbiter-parent weight *number*
Tree	weight
Range	1 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Exceed threshold of the CIR leaky bucket of the policer
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456

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Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

high-prio-only *(number | keyword)*

Synopsis	Percentage of MBS reserved for high priority traffic
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* high-prio-only *(number | keyword)*
Tree	high-prio-only
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	High priority violate threshold of PIR leaky bucket
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes

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Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* percent-rate
Tree	percent-rate
Description	Commands in this context configure the policer PIR and CIR as a percentage of the actual port speed or reference bandwidth, as opposed to absolute rate values. The reference bandwidth is configured on a per-port basis using the **configure port ethernet ingress-reference-bw** command and overrides the actual port speed. If the reference bandwidth is modified, the PIR and CIR are recalculated based on the new bandwidth and the configured percentage values. This command is mutually exclusive with the **rate** command used to specify absolute rate values for the policer. Configuring one removes the existing configuration of the other.
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	Administrative CIR percent

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Context	**configure** qos sap-ingress *qos-policy-name* policer *number* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Default	0.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Administrative PIR percent
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	local-limit, reference-port-limit
Default	local-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

profile-capped *boolean*

Synopsis	Enforce overall in-profile burst limit to CIR bucket
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* profile-capped *boolean*
Tree	profile-capped
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** qos sap-ingress *qos-policy-name* policer *number* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir, offered-profile-with-discards
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Ingress SAP QoS policy ID
Context	**configure** qos sap-ingress *qos-policy-name* policy-id *number*
Tree	policy-id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

prec [prec-value] *number*

Synopsis	Enter the **prec** list instance
Context	**configure** qos sap-ingress *qos-policy-name* prec *number*
Tree	prec
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prec-value**] *number*

Synopsis	Precedence value for which mapping is performed
Context	**configure** qos sap-ingress *qos-policy-name* prec *number*
Tree	prec

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Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *sap-ingress-fc-name*

Synopsis	Forwarding class for traffic matching precedence value
Context	**configure** qos sap-ingress *qos-policy-name* prec *number* fc *sap-ingress-fc-name*
Tree	fc
String length	1 to 32
String format	'sap-ingress-fc-name' must be one of be|l2|af|l1|h2|ef|h1|nc with optional .sub-name (e.g. be or ef.my-sub)
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *keyword*

Synopsis	Priority for the matching traffic
Context	**configure** qos sap-ingress *qos-policy-name* prec *number* priority *keyword*
Tree	priority
Options	low, high, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *number*

Synopsis	Enter the **queue** list instance
Context	**configure** qos sap-ingress *qos-policy-name* queue *number*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**queue-id**] *number*

Synopsis	SAP-ingress policer identifier
Context	**configure** qos sap-ingress *qos-policy-name* queue *number*
Tree	queue
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

burst-limit *(number | keyword)*

Synopsis	Explicit shaping burst size of a queue
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* burst-limit *(number | keyword)*
Tree	burst-limit
Range	1 to 14000000
Units	bytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	Reserved buffer space for the queue
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Low drop-tail percent from MBS that is reduced
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	Maximum buffer space that is allowed for queue
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes

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Options	auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

multipoint *boolean*

WARNING:
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Synopsis	Apply as a multicast queue
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* multipoint *boolean*
Tree	multipoint
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for queue accounting
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 30
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *decimal-number*

Synopsis	Administrative CIR percent
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Default	0.00
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fir *decimal-number*

Synopsis	Administrative FIR percent
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* percent-rate fir *decimal-number*
Tree	fir
Range	0.00 to 100.00
Default	0.00
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Administrative PIR percent
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

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police

Synopsis	Drop out-of-profile traffic feeding into queue instance
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* percent-rate police
Tree	police
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	port-limit, local-limit, reference-port-limit
Default	port-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-mode *keyword*

WARNING:
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Synopsis	Operating mode for this queue
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* queue-mode *keyword*
Tree	queue-mode
Options	priority, profile
Default	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-type *keyword*

WARNING:
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Synopsis	Method used to service queue from hardware perspective
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* queue-type *keyword*
Tree	queue-type
Options	expedited, auto-expedited, best-effort
Default	auto-expedited
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Default	0
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fir *(number | keyword)*

Synopsis	Administrative FIR
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* rate fir *(number | keyword)*
Tree	fir
Range	0 to 6400000000
Units	kilobps
Options	max
Default	0
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

police

Synopsis	Drop the traffic feeding into queue above the PIR rate
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* rate police
Tree	police
Notes	The following elements are part of a choice: (**cir** and **fir**) or **police**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler-parent

Synopsis	Enter the **scheduler-parent** context
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* scheduler-parent
Tree	scheduler-parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* scheduler-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* scheduler-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* scheduler-parent level *number*
Tree	level

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Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-name *named-item*

Synopsis	Scheduler name
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* scheduler-parent scheduler-name *named-item*
Tree	scheduler-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** qos sap-ingress *qos-policy-name* queue *number* scheduler-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	Scope of the policy
Context	**configure** qos sap-ingress *qos-policy-name* scope *keyword*
Tree	scope
Options	exclusive – Allow policy to be assigned to only one port template – Allow policy to be assigned to multiple ports
Default	template
Introduced	25.3.R2

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Platforms	SAR Gen 2

scheduler-policy [scheduler-policy-name] *named-item*

Synopsis	Enter the **scheduler-policy** list instance
Context	**configure** qos scheduler-policy *named-item*
Tree	scheduler-policy
Max. instances	2047
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-policy-name**] *named-item*

Synopsis	Scheduler policy name
Context	**configure** qos scheduler-policy *named-item*
Tree	scheduler-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** qos scheduler-policy *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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frame-based-accounting *boolean*

Synopsis	Use frame-based accounting for queues and schedulers
Context	**configure** qos scheduler-policy *named-item* frame-based-accounting *boolean*
Tree	frame-based-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tier [tier-id] *number*

Synopsis	Enter the **tier** list instance
Context	**configure** qos scheduler-policy *named-item* tier *number*
Tree	tier
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tier-id**] *number*

Synopsis	Tier for scheduler-policy scheduler
Context	**configure** qos scheduler-policy *named-item* tier *number*
Tree	tier
Range	1 to 3
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent-location *keyword*

Synopsis	Expected location of parent schedulers
Context	**configure** qos scheduler-policy *named-item* tier *number* parent-location *keyword*
Tree	parent-location
Options	auto, sub, vport
Default	auto
Introduced	25.3.R2

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Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context will not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name. If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

limit-unused-bandwidth *boolean*

Synopsis	Enable aggregate rate overrun protection
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* limit-unused-bandwidth *boolean*
Tree	limit-unused-bandwidth
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(keyword | decimal-number)*

Synopsis	Scheduler CIR
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* percent-rate cir *(keyword | decimal-number)*
Tree	cir
Range	0.00 to 100.00
Options	sum

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Default	sum
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	Scheduler PIR
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-rate *keyword*

Synopsis	Reference rate
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* percent-rate reference-rate *keyword*
Tree	reference-rate
Options	local-limit, reference-port-limit
Default	reference-port-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

port-parent

Synopsis	Enable the **port-parent** context
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* port-parent
Tree	port-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir-level *number*

Synopsis	Port priority to receive bandwidth for within-CIR pass
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* port-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* port-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Port priority for bandwidth for above-CIR offered load
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* port-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Weight used at the above-CIR port priority level

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Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* port-parent weight *number*
Tree	weight
Range	0 to 100
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Administrative CIR
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Default	sum
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	Administrative PIR
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* rate pir *(number | keyword)*
Tree	pir

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Range	1 to 6400000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-parent

Synopsis	Enable the **scheduler-parent** context
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* scheduler-parent
Tree	scheduler-parent
Notes	The following elements are part of a choice: **port-parent** or **scheduler-parent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* scheduler-parent cir-level *number*
Tree	cir-level
Range	0 to 8
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* scheduler-parent cir-weight *number*
Tree	cir-weight
Range	0 to 100

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Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

level *number*

Synopsis	Level of priority while feeding to the parent
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* scheduler-parent level *number*
Tree	level
Range	1 to 8
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-name *named-item*

Synopsis	Scheduler name
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* scheduler-parent scheduler-name *named-item*
Tree	scheduler-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** qos scheduler-policy *named-item* tier *number* scheduler *named-item* scheduler-parent weight *number*
Tree	weight
Range	0 to 100
Default	1

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Introduced	25.3.R2
Platforms	SAR Gen 2

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4.23 redundancy commands

```
configure
   – redundancy
      – apply-groups reference
      – apply-groups-exclude reference
      – bgp-evpn
         – ethernet-segment
            – activation-timer number
            – apply-groups reference
            – apply-groups-exclude reference
            – boot-timer number
      – bgp-mh
         – apply-groups reference
         – apply-groups-exclude reference
         – site
            – activation-timer number
            – boot-timer number
            – min-down-timer number
      – cert-sync boolean
      – multi-chassis
         – ipsec-domain number
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – designated-role keyword
            – priority number
            – revertive boolean
            – tunnel-group reference
         – peer (ipv4-address-no-zone | ipv6-address-no-zone)
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – authentication-key encrypted-leaf
            – description description
            – mc-endpoint
               – admin-state keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – bfd boolean
               – boot-timer number
               – hold-on-neighbor-failure number
               – keep-alive-interval number
               – passive-mode boolean
               – system-priority number
            – mc-ipsec
               – apply-groups reference
               – apply-groups-exclude reference
               – bfd-liveness boolean
               – discovery-interval
                  – boot number
                  – interval-secs number
               – domain reference
                  – admin-state keyword
                  – apply-groups reference
                  – apply-groups-exclude reference
               – hold-on-neighbor-failure number
               – keep-alive-interval number
               – tunnel-group reference
                  – admin-state keyword
                  – apply-groups reference
```


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```
                - apply-groups-exclude reference
                - peer-group number
                - priority number
            - mc-lag
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - hold-on-neighbor-failure number
                - keep-alive-interval number
                - lag reference
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - lacp-key number
                    - remote-lag lag-interface
                    - system-id mac-address
                    - system-priority number
            - mc-ring
                - apply-groups reference
                - apply-groups-exclude reference
                - ring named-item
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - in-band-control-path
                        - debounce boolean
                        - dst-ip ipv4-unicast-address
                        - interface interface-name
                        - max-debounce-time number
                        - service-name service-name
                    - path-b
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - range start number end number
                        - wildcard-saps boolean
                    - path-excl
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - range start number end number
                        - wildcard-saps boolean
                    - ring-node named-item
                        - admin-state keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - dst-ip ipv4-unicast-address
                        - interval number
                        - service-name service-name
                        - src-ip ipv4-unicast-address
                        - src-mac (keyword | ring-node-mac-address)
                        - vlan ext-vlan-encap
                    - type keyword
            - peer-name named-item
            - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - sync
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - ipsec boolean
                - l2tp boolean
                - local-dhcp-server boolean
                - mc-ring boolean
                - tags
                    - lag reference
                        - apply-groups reference
                        - apply-groups-exclude reference
```


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configure redundancy multi-chassis peer sync tags lag range

```
                  - range start vlan-encap end vlan-encap
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - sync-tag named-item
                  - sync-tag named-item
               - port reference
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - range start vlan-encap end vlan-encap
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - sync-tag named-item
                  - sync-tag named-item
               - sdp number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - range start number end number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - sync-tag named-item
                  - sync-tag named-item
            - transport-encryption
               - application keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - keychain reference
            - tunnel-group number
               - apply-groups reference
               - apply-groups-exclude reference
               - sync-tag named-item
      - rollback-sync keyword
      - switchover-exec url
      - synchronize keyword
```


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4.23.1 redundancy command descriptions

redundancy

Synopsis	Enter the **redundancy** context
Context	**configure** redundancy
Tree	redundancy
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-evpn

Synopsis	Enter the **bgp-evpn** context
Context	**configure** redundancy bgp-evpn
Tree	bgp-evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

ethernet-segment

Synopsis	Enter the **ethernet-segment** context
Context	**configure** redundancy bgp-evpn ethernet-segment
Tree	ethernet-segment
Introduced	25.3.R2
Platforms	SAR Gen 2

activation-timer *number*

Synopsis	Time before Ethernet segment activated on DF-elected PE
Context	**configure** redundancy bgp-evpn ethernet-segment activation-timer *number*
Tree	activation-timer
Range	0 to 100
Units	seconds
Default	3
Introduced	25.3.R2

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Platforms	SAR Gen 2

boot-timer *number*

Synopsis	Time before BGP EVPN multi-homing DF election algorithm
Context	**configure** redundancy bgp-evpn ethernet-segment boot-timer *number*
Tree	boot-timer
Description	This command allows the necessary time for the control plane protocols to come up upon PE boot-up before bringing up the ESs and running the DF algorithm. The following considerations apply to this command: • The **boot-timer** command must provide enough time to allow the IOMs and BGP sessions to come up before exchanging ES routes and running the DF election for each EVI or ISID. • The boot-timer is synchronized across CPMs and is relative to the system up time; it is not changed or reset upon CPM switchover. • The boot-timer is never interrupted (the **es-activation-timer**, however, can be interrupted if there is a new event triggering the DF election). • The boot-timer runs per EVI or ISID on the ESs in the system. If the system up time (time the system has been up since the last reboot) is less than the **boot-timer** value, the system does not run the DF election for any EVI or ISID. When the **boot-timer** value expires, the DF election runs, and if the system is elected DF for the EVI or ISID, the **es-activation-timer** is triggered. • The system does not advertise ES routes until the boot timer expires, which guarantees that the peer ES PEs only run the DF election when the PE is ready to become the DF, if required.
Range	0 to 1800
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-mh

Synopsis	Enter the **bgp-mh** context
Context	**configure** redundancy bgp-mh
Tree	bgp-mh
Introduced	25.3.R2
Platforms	SAR Gen 2

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site

Synopsis	Enter the **site** context
Context	**configure** redundancy bgp-mh site
Tree	site
Introduced	25.3.R2
Platforms	SAR Gen 2

activation-timer *number*

Synopsis	Time to wait for BGP updates from remote PEs
Context	**configure** redundancy bgp-mh site activation-timer *number*
Tree	activation-timer
Range	0 to 100
Units	seconds
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

boot-timer *number*

Synopsis	Wait time after reboot to run the DF election algorithm
Context	**configure** redundancy bgp-mh site boot-timer *number*
Tree	boot-timer
Range	0 to 600
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

min-down-timer *number*

Synopsis	Min downtime for BGP multi-homing site after transition
Context	**configure** redundancy bgp-mh site min-down-timer *number*
Tree	min-down-timer

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Description	This command configures the BGP multi-homing site minimum down time. When this value is set and the site goes operationally down, it remains operationally down for at least the length of time configured by this timer, regardless of whether other state changes might cause the site to go operationally up. This timer is restarted every time the site transitions from operationally up to down. This timer is optimized in the following circumstances: • If the site goes down on the DF but there are no BGP multi-homing peers with the same site in an up state, this timer is not used. • If the site goes down on the DF but there are no active BGP multi-homing peers, this timer is not used. • If this timer is active and a BGP multihoming update is received from the DF indicating its site is down, this timer is immediately terminated and the BGP multihoming algorithm is triggered to determine whether this PE should become the DF.
Range	1 to 100
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-sync *boolean*

Synopsis	Automatically synchronize certificate files
Context	**configure** redundancy cert-sync *boolean*
Tree	cert-sync
Description	When configured to **true**, the system automatically synchronizes the certificate/CRL/key when importing or generating (for the key). If a new CF card is inserted into cf3: into the backup CPM, the system synchronizes the system-pki directory from the active CPM.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis

Synopsis	Enter the **multi-chassis** context
Context	**configure** redundancy multi-chassis
Tree	multi-chassis
Description	Commands in this context configure the attributes of multi-chassis redundancy.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipsec-domain [id] *number*

Synopsis	Enter the **ipsec-domain** list instance
Context	**configure** redundancy multi-chassis ipsec-domain *number*
Tree	ipsec-domain
Description	Commands in this context configure an IPsec domain used for N:M IPsec redundancy.
Max. instances	64
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	IPsec domain ID
Context	**configure** redundancy multi-chassis ipsec-domain *number*
Tree	ipsec-domain
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec domain
Context	**configure** redundancy multi-chassis ipsec-domain *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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designated-role *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Designated role for the IPsec domain
Context	**configure** redundancy multi-chassis ipsec-domain *number* designated-role *keyword*
Tree	designated-role
Description	This command configures the designated role of the tunnel group in the IPsec domain.
Options	standby, active
Default	standby
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority for the IPsec domain
Context	**configure** redundancy multi-chassis ipsec-domain *number* priority *number*
Tree	priority
Description	This command configures the priority for the tunnel group in the IPsec domain. The node with the higher priority is more likely to be elected as active within the domain.
Range	0 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

revertive *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable revertive behavior for the tunnel group
Context	**configure** redundancy multi-chassis ipsec-domain *number* revertive *boolean*
Tree	revertive

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Description	When configured to **true**, the router enables the revertive behavior of the tunnel group, which allows a router in an N:M domain to automatically take over as the active router in the domain when it becomes eligible to do so. When configured to **false**, the revertive behavior of the tunnel group is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Tunnel group ID for an IPsec domain
Context	**configure** redundancy multi-chassis ipsec-domain *number* tunnel-group *reference*
Tree	tunnel-group
Description	This command specifies the tunnel group ID for the IPsec domain.
Reference	**configure** isa tunnel-group *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Description	This command configures the IP address of the peer in a redundant multi-chassis setup, and enters the context for further application-specific configuration options.
Max. instances	20
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Peer IP address
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MC redundancy peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Authentication key used between the node and MC peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key used between the node and MC peer in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 110

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-endpoint

Synopsis	Enable the **mc-endpoint** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint
Tree	mc-endpoint
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MC-EP
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd *boolean*

Synopsis	Enable BFD detection for the MC-EP peering tunnel
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint bfd *boolean*
Tree	bfd
Description	When configured to **true**, the system uses Bidirectional Forwarding Detection (BFD) to control the state of the associated protocol interface, where the state of the protocol interface is tied to the state of the BFD session between the local and remote nodes. The BFD settings are configured in the IP interface contexts.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

boot-timer *number*

Synopsis	Time to attempt connection before declaring failure
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint boot-timer *number*
Tree	boot-timer
Description	This command configures the time interval to attempt connection that applies after the node reboots. This command specifies the time the multi-chassis endpoint (MC-EP) protocol takes to establish a connection before declaring a connection failure with the remote peer. When the time interval expires, all configured MC-EPs revert to single chassis behavior, activating the best local pseudowire.
Range	1 to 600
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-on-neighbor-failure *number*

Synopsis	Number of keepalive intervals to wait for packets
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint hold-on-neighbor-failure *number*
Tree	hold-on-neighbor-failure

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Description	This command configures the number of keepalive intervals that the local node waits for packets from the MC-EP peer before declaring a connection failure. When the number of intervals is reached, all configured MC-EPs revert to single chassis behavior, activating the best local pseudowire.
Range	2 to 25
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

keep-alive-interval *number*

Synopsis	Interval for exchange of keepalive messages
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint keep-alive-interval *number*
Tree	keep-alive-interval
Description	This command configures the interval for which keepalive messages are exchanged between two systems participating as MC-EP when BFD is not active. The fast keepalive messages are used to detect remote node failure.
Range	5 to 500
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

passive-mode *boolean*

Synopsis	Enable passive mode for the MC-EP tunnel
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint passive-mode *boolean*
Tree	passive-mode
Description	When configured to **true**, the system enables passive mode behavior for the MC-EP protocol. Assuming the remote pair is configured with regular MC-EP in passive mode, the MC-EP pair remains dormant until two of the pseudowires in an MC-EP are activated by the remote PEs. When one pseudowire is active, the dormant MC-EP pair becomes active. The regular mechanism to select the best pseudowire between the active pair is initiated, and the system blocks the Rx and Tx directions of the other pseudowire.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

system-priority *number*

Synopsis	System priority of the MC-EP
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-endpoint system-priority *number*
Tree	system-priority
Description	This command configures the system priority of the MC-EP. The peer configured with the lower value is selected as the master. If the system priority values are equal, the peer with the higher system ID (chassis MAC address) becomes the master.
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ipsec

Synopsis	Enable the **mc-ipsec** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec
Tree	mc-ipsec
Description	Commands in this context configure the 1:1 and N:M MC-IPsec multi-chassis state failover mechanism that allows the IPsec tunnel to continue to function without interruption if an active node fails.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec bfd-liveness *boolean*
Tree	bfd-liveness
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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discovery-interval

Synopsis	Enter the **discovery-interval** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec discovery-interval
Tree	discovery-interval
Introduced	25.3.R2
Platforms	SAR Gen 2

boot *number*

Synopsis	Maximum interval after system bootup
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec discovery-interval boot *number*
Tree	boot
Range	1 to 1800
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

interval-secs *number*

Synopsis	Maximum discovery interval
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec discovery-interval interval-secs *number*
Tree	interval-secs
Range	1 to 1800
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

domain [id] *reference*

Synopsis	Enter the **domain** list instance

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Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec domain *reference*
Tree	domain
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	IPsec domain ID
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec domain *reference*
Tree	domain
Reference	**configure** redundancy multi-chassis ipsec-domain *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec domain
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec domain *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-on-neighbor-failure *number*

Synopsis	Hold time on neighbor failure
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec hold-on-neighbor-failure *number*
Tree	hold-on-neighbor-failure
Range	2 to 25
Default	3

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Introduced	25.3.R2
Platforms	SAR Gen 2

keep-alive-interval *number*

Synopsis	Keepalive interval
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec keep-alive-interval *number*
Tree	keep-alive-interval
Range	5 to 500
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group [tunnel-group-id] *reference*

Synopsis	Enter the **tunnel-group** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec tunnel-group *reference*
Tree	tunnel-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tunnel-group-id**] *reference*

Synopsis	Tunnel group ID
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec tunnel-group *reference*
Tree	tunnel-group
Reference	**configure** isa tunnel-group *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the peer IPsec tunnel group
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec tunnel-group *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-group *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Peer tunnel group
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec tunnel-group *reference* peer-group *number*
Tree	peer-group
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Tunnel group priority
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ipsec tunnel-group *reference* priority *number*
Tree	priority
Description	This command configures the 1:1 MC-IPsec local priority for the tunnel group. The priority configuration is one of the factors used to select the active node between MC peers for the tunnel group. The node that has the tunnel group with the higher priority value is more likely to be elected as the active node.
Range	0 to 255
Default	100

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Introduced	25.3.R2
Platforms	SAR Gen 2

mc-lag

Synopsis	Enter the **mc-lag** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag
Tree	mc-lag
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of MC-LAG
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-on-neighbor-failure *number*

Synopsis	Time to wait for packets before node failure assumed
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag hold-on-neighbor-failure *number*
Tree	hold-on-neighbor-failure
Range	2 to 25
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

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keep-alive-interval *number*

Synopsis	Keepalive timer value
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag keep-alive-interval *number*
Tree	keep-alive-interval
Range	5 to 500
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

lag [lag-name] *reference*

Synopsis	Enter the **lag** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag lag *reference*
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag lag *reference*
Tree	lag
Reference	**configure** lag *lag-interface*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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lacp-key *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key based on the remote MC-LAG
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag lag *reference* lacp-key *number*
Tree	lacp-key
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-lag *lag-interface*

Synopsis	LAG name
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag lag *reference* remote-lag *lag-interface*
Tree	remote-lag
String length	1 to 27
String format	'lag-interface' must be lag- followed by number 1-800 or up to 23 chars (e.g. lag-1 or lag-my-lag)
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id *mac-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	ID based on the remote MC-LAG
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag lag *reference* system-id *mac-address*
Tree	system-id
Introduced	25.3.R2
Platforms	SAR Gen 2

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system-priority *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Priority based on the remote MC-LAG
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-lag lag *reference* system-priority *number*
Tree	system-priority
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ring

Synopsis	Enter the **mc-ring** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring
Tree	mc-ring
Introduced	25.3.R2
Platforms	SAR Gen 2

ring [sync-tag] *named-item*

Synopsis	Enter the **ring** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item*
Tree	ring
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sync-tag**] *named-item*

Synopsis	Tag for synchronizing with the multi-chassis peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item*

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Tree	ring
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the multi-chassis ring
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

in-band-control-path

Synopsis	Enter the **in-band-control-path** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* in-band-control-path
Tree	in-band-control-path
Introduced	25.3.R2
Platforms	SAR Gen 2

debounce *boolean*

Synopsis	Enable inband control path debouncing
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* in-band-control-path debounce *boolean*
Tree	debounce
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

dst-ip *ipv4-unicast-address*

Synopsis	IP address of the in-band control path peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* in-band-control-path dst-ip *ipv4-unicast-address*
Tree	dst-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Interface to verify in-band control path
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* in-band-control-path interface *interface-name*
Tree	interface
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

max-debounce-time *number*

Synopsis	Maximum delay after a failure when debouncing is active
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* in-band-control-path max-debounce-time *number*
Tree	max-debounce-time
Range	5 to 200
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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service-name *service-name*

Synopsis	Administrative service name
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* in-band-control-path service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

path-b

Synopsis	Enter the **path-b** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-b
Tree	path-b
Introduced	25.3.R2
Platforms	SAR Gen 2

range start *number* end *number*

Synopsis	Add a list entry for **range**
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-b range start *number* end *number*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the VLAN range
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-b range start *number* end *number*
Tree	range
Range	0 to 4094

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the VLAN range
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-b range start *number* end *number*
Tree	range
Range	0 to 4094
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

wildcard-saps *boolean*

Synopsis	Include the SAPs starting with a wildcard '*'
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-b wildcard-saps *boolean*
Tree	wildcard-saps
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

path-excl

Synopsis	Enter the **path-excl** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-excl
Tree	path-excl
Introduced	25.3.R2
Platforms	SAR Gen 2

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range start *number* end *number*

Synopsis	Add a list entry for **range**
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-excl range start *number* end *number*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the VLAN range
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-excl range start *number* end *number*
Tree	range
Range	0 to 4094
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the VLAN range
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-excl range start *number* end *number*
Tree	range
Range	0 to 4094
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

wildcard-saps *boolean*

Synopsis	Include the SAPs starting with a wildcard **'*'**
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* path-excl wildcard-saps *boolean*

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Tree	wildcard-saps
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ring-node [name] *named-item*

Synopsis	Enter the **ring-node** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item*
Tree	ring-node
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Name of the multi-chassis ring access node
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item*
Tree	ring-node
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the ring node verification
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

dst-ip *ipv4-unicast-address*

Synopsis	Destination IP address for access node connection
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* dst-ip *ipv4-unicast-address*
Tree	dst-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Connection verification interval
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* interval *number*
Tree	interval
Range	1 to 6000
Units	minutes
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

Synopsis	Administrative service name
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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src-ip *ipv4-unicast-address*

Synopsis	Source IP address for access node connection
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* src-ip *ipv4-unicast-address*
Tree	src-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

src-mac *(keyword \| ring-node-mac-address)*

Synopsis	Source MAC address for the access node connection
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* src-mac *(keyword | ring-node-mac-address)*
Tree	src-mac
Options	system-mac-address
Default	system-mac-address 00:00:00:00:00:00
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan *ext-vlan-encap*

Synopsis	VLAN ID for access node connection
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* ring-node *named-item* vlan *ext-vlan-encap*
Tree	vlan
String length	1 to 11
String format	'ext-vlan-encap' must match extended VLAN encap or 0.*
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Type of the multi-chassis ring
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* mc-ring ring *named-item* type *keyword*
Tree	type
Options	layer-2, layer-3
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-name *named-item*

Synopsis	Multi-chassis peer name
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* peer-name *named-item*
Tree	peer-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Source address to communicate with the MC peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2

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Platforms	SAR Gen 2

sync

Synopsis	Enable the **sync** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync
Tree	sync
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the peer synchronization
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec *boolean*

Synopsis	Synchronize IPsec information
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync ipsec *boolean*
Tree	ipsec
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

l2tp *boolean*

Synopsis	Synchronize Layer Two Tunnel Protocol (L2TP)

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Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync l2tp *boolean*
Tree	l2tp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *boolean*

Synopsis	Synchronize DHCP Server information
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync local-dhcp-server *boolean*
Tree	local-dhcp-server
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ring *boolean*

Synopsis	Synchronize ring information
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync mc-ring *boolean*
Tree	mc-ring
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tags

Synopsis	Enter the **tags** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags
Tree	tags
Introduced	25.3.R2
Platforms	SAR Gen 2

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lag [lag-name] *reference*

Synopsis	Enter the **lag** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference*
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *reference*

Synopsis	LAG name
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference*
Tree	lag
Reference	**configure** lag *lag-interface*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

range start *vlan-encap* end *vlan-encap*

Synopsis	Enter the **range** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference* range start *vlan-encap* end *vlan-encap*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *vlan-encap*

Synopsis	First encapsulation value
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference* range start *vlan-encap* end *vlan-encap*
Tree	range
String length	1 to 11

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String format	'vlan-encap' must be Q-tag or dot1q form (0-4094 or 1-4094.0-4094 or *)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *vlan-encap*

Synopsis	Last encapsulation value
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference* range start *vlan-encap* end *vlan-encap*
Tree	range
String length	1 to 11
String format	'vlan-encap' must be Q-tag or dot1q form (0-4094 or 1-4094.0-4094 or *)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Synchronization tag
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference* range start *vlan-encap* end *vlan-encap* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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sync-tag *named-item*

WARNING:
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Synopsis	Synchronization tag
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags lag *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

port [id] *reference*

Synopsis	Enter the **port** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference*
Tree	port
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	ID of port to be synchronized with multi-chassis peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference*
Tree	port
Reference	**configure** port *port*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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range start *vlan-encap* end *vlan-encap*

Synopsis	Enter the **range** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference* range start *vlan-encap* end *vlan-encap*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *vlan-encap*

Synopsis	First encapsulation value
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference* range start *vlan-encap* end *vlan-encap*
Tree	range
String length	1 to 11
String format	'vlan-encap' must be Q-tag or dot1q form (0-4094 or 1-4094.0-4094 or *)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *vlan-encap*

Synopsis	Last encapsulation value
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference* range start *vlan-encap* end *vlan-encap*
Tree	range
String length	1 to 11
String format	'vlan-encap' must be Q-tag or dot1q form (0-4094 or 1-4094.0-4094 or *)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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sync-tag *named-item*

WARNING:
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Synopsis	Synchronization tag
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference* range start *vlan-encap* end *vlan-encap* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Synchronization tag
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags port *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp [id] *number*

Synopsis	Enter the **sdp** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number*
Tree	sdp

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	ID of SDP to be synchronized with multi-chassis peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number*
Tree	sdp
Range	1 to 32767
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

range start *number* end *number*

Synopsis	Enter the **range** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number* range start *number* end *number*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	First virtual circuit ID
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number* range start *number* end *number*
Tree	range
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

Synopsis	Last virtual circuit ID
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number* range start *number* end *number*
Tree	range
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Synchronization tag
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number* range start *number* end *number* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Synchronization tag
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tags sdp *number* sync-tag *named-item*
Tree	sync-tag

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

transport-encryption

Synopsis	Enter the **transport-encryption** context
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync transport-encryption
Tree	transport-encryption
Introduced	25.3.R2
Platforms	SAR Gen 2

application [application-id] *keyword*

Synopsis	Enter the **application** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync transport-encryption application *keyword*
Tree	application
Description	Commands in this context configure the MCS application for transport encryption. The application-id configures an application and a keychain defines the key used for the encryption.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**application-id**] *keyword*

Synopsis	Application using transport encryption
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync transport-encryption application *keyword*
Tree	application
Description	This command configures an MCS application for the transport encryption method.
Options	igmp, igmp-snooping, sub-mgmt-ipoe, srrp, mc-ring, mld-snooping, dhcp-server, sub-host-trk, sub-mgmt-pppoe, ipsec, mld, python, l2tp, diam-proxy, pim-snpg-sap, pim-snpg-sdp, diam-node, nat, sub-mgmt-wlan-gw
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

keychain *reference*

Synopsis	Keychain containing the authentication keys
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync transport-encryption application *keyword* keychain *reference*
Tree	keychain
Description	This command specifies a keychain that contains authentication keys for the application.
Reference	**configure** system security keychains keychain *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group [tunnel-group-id] *number*

Synopsis	Enter the **tunnel-group** list instance
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tunnel-group *number*
Tree	tunnel-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tunnel-group-id**] *number*

Synopsis	Multi-active tunnel group ID
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tunnel-group *number*
Tree	tunnel-group
Range	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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sync-tag *named-item*

Synopsis	Tag to synchronize the tunnel group with the MC peer
Context	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)* sync tunnel-group *number* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rollback-sync *keyword*

Synopsis	Parameters for redundancy rollback synchronization
Context	**configure** redundancy rollback-sync *keyword*
Tree	rollback-sync
Options	rollback-single, rollback-all
Introduced	25.3.R2
Platforms	SAR Gen 2

switchover-exec *url*

Synopsis	CLI script file executed after a redundancy switchover
Context	**configure** redundancy switchover-exec *url*
Tree	switchover-exec
Description	This command specifies the location and name of the CLI script file executed following a redundancy switchover from the previously active CPM card. A switchover can happen because of a fatal failure or by manual action. The CLI script file can contain commands for environment settings, classic CLI debug configuration (excluding mirroring settings), and other commands not maintained by the configuration redundancy. The following commands are not supported in the switchover-exec file: **clear**, **configure**, **candidate**, **oam**, **tools**, **oam**, **ping**, **traceroute**, **mstat**, **mtrace**, and **mrinfo**.
String length	1 to 100
Introduced	25.3.R2

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Platforms	SAR Gen 2

synchronize *keyword*

Synopsis	Behavior for automatic redundancy synchronization
Context	**configure** redundancy synchronize *keyword*
Tree	synchronize
Description	This command specifies the behavior for the automatic synchronization of system files on the active CPM to the standby CPM.
Options	off – Disable synchronization config – Synchronize the configuration files boot-env – Synchronize all files required for the boot process
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.24 router commands

```
configure
   – router named-item-64
      – aggregates
         – aggregate (ipv4-prefix | ipv6-prefix)
            – aggregator
               – address ipv4-unicast-address
               – as-number number
            – apply-groups reference
            – apply-groups-exclude reference
            – as-set boolean
            – blackhole
               – generate-icmp boolean
            – community community
            – description description
            – discard-component-communities boolean
            – indirect (ipv4-address-no-zone | ipv6-address-no-zone)
            – local-preference number
            – policy reference
            – summary-only boolean
            – tunnel-group number
         – apply-groups reference
         – apply-groups-exclude reference
      – allow-bgp-to-igp-export boolean
      – allow-icmp-redirect boolean
      – allow-icmp6-redirect boolean
      – apply-groups reference
      – apply-groups-exclude reference
      – autonomous-system number
      – bgp
         – add-paths
            – evpn
               – receive boolean
               – send (number | keyword)
            – ipv4
               – receive boolean
               – send (number | keyword)
            – ipv6
               – receive boolean
               – send (number | keyword)
            – label-ipv4
               – receive boolean
               – send (number | keyword)
            – label-ipv6
               – receive boolean
               – send (number | keyword)
            – vpn-ipv4
               – receive boolean
               – send (number | keyword)
            – vpn-ipv6
               – receive boolean
               – send (number | keyword)
         – admin-state keyword
         – advertise-external
            – ipv4 boolean
            – ipv6 boolean
            – label-ipv4 boolean
            – label-ipv6 boolean
         – advertise-inactive boolean
         – advertise-ipv6-next-hops
```


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```
            - evpn boolean
            - ipv4 boolean
            - label-ipv4 boolean
            - label-ipv6 boolean
            - vpn-ipv4 boolean
            - vpn-ipv6 boolean
         - aggregator-id-zero boolean
         - apply-groups reference
         - apply-groups-exclude reference
         - asn-4-byte boolean
         - authentication-key encrypted-leaf
         - authentication-keychain reference
         - backup-path
            - ipv4 boolean
            - ipv6 boolean
            - label-ipv4 boolean
            - label-ipv6 boolean
         - best-path-selection
            - always-compare-med
               - med-value keyword
               - strict-as boolean
            - as-path-ignore
               - ipv4 boolean
               - ipv6 boolean
               - l2-vpn boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - mcast-ipv4 boolean
               - mcast-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - compare-origin-validation-state boolean
            - d-path-length-ignore boolean
            - deterministic-med boolean
            - ebgp-ibgp-equal
               - evpn boolean
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - ignore-nh-metric boolean
            - ignore-router-id
               - include-internal
            - origin-invalid-unusable boolean
         - bfd-liveness boolean
         - bfd-strict-mode
            - advertise
               - holdtime number
            - next-hop-reachability boolean
         - bgp-tunnel-metric
            - prefer-aigp boolean
            - prefer-med boolean
            - value number
         - bgp-tunnel-preference number
         - block-prefix-sid boolean
         - client-reflect boolean
         - cluster
            - allow-local-fallback boolean
            - cluster-id ipv4-address
            - orr-location number
         - connect-retry number
         - convergence
```


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```
            - family keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - max-wait-to-advertise number
            - min-wait-to-advertise number
         - damp-peer-oscillations
            - error-interval number
            - idle-hold-time
               - initial-wait number
               - max-wait number
               - second-wait number
         - damping boolean
         - def-recv-evpn-encap keyword
         - default-label-preference
            - ebgp number
            - ibgp number
         - default-preference
            - ebgp number
            - ibgp number
         - description description
         - dynamic-neighbor-limit number
         - ebgp-default-reject-policy
            - export boolean
            - import boolean
         - egress-peer-engineering
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
         - enforce-first-as boolean
         - error-handling
            - legacy-mode boolean
            - update-fault-tolerance boolean
         - export
            - apply-groups reference
            - apply-groups-exclude reference
            - policy (policy-expr-string | string)
         - extended-nh-encoding
            - ipv4 boolean
            - label-ipv4 boolean
            - vpn-ipv4 boolean
         - family
            - bgp-ls boolean
            - evpn boolean
            - flow-ipv6 boolean
            - flow-vpn-ipv4 boolean
            - flow-vpn-ipv6 boolean
            - ipv4 boolean
            - ipv6 boolean
            - l2-vpn boolean
            - label-ipv4 boolean
            - label-ipv6 boolean
            - mcast-ipv4 boolean
            - mcast-ipv6 boolean
            - mcast-vpn-ipv4 boolean
            - mcast-vpn-ipv6 boolean
            - mdt-safi boolean
            - ms-pw boolean
            - route-target boolean
            - sr-policy-ipv4 boolean
            - sr-policy-ipv6 boolean
            - vpn-ipv4 boolean
            - vpn-ipv6 boolean
         - fast-external-failover boolean
         - graceful-restart
```


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```
            - gr-notification boolean
            - long-lived
               - advertise-stale-to-all-neighbors boolean
               - advertised-stale-time number
               - family keyword
                  - advertised-stale-time number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - helper-override-stale-time number
               - forwarding-bits-set keyword
               - helper-override-restart-time number
               - helper-override-stale-time number
               - without-no-export boolean
            - restart-time number
            - stale-routes-time number
         - group named-item-64
            - add-paths
               - evpn
                  - receive boolean
                  - send (number | keyword)
               - ipv4
                  - receive boolean
                  - send (number | keyword)
               - ipv6
                  - receive boolean
                  - send (number | keyword)
               - label-ipv4
                  - receive boolean
                  - send (number | keyword)
               - label-ipv6
                  - receive boolean
                  - send (number | keyword)
               - vpn-ipv4
                  - receive boolean
                  - send (number | keyword)
               - vpn-ipv6
                  - receive boolean
                  - send (number | keyword)
            - admin-state keyword
            - advertise-inactive boolean
            - advertise-ipv6-next-hops
               - evpn boolean
               - ipv4 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - aggregator-id-zero boolean
            - aigp boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - as-override boolean
            - asn-4-byte boolean
            - authentication-key encrypted-leaf
            - authentication-keychain reference
            - bfd-liveness boolean
            - bfd-strict-mode
               - advertise
                  - holdtime number
               - next-hop-reachability boolean
            - block-prefix-sid boolean
            - capability-negotiation boolean
            - client-reflect boolean
            - cluster
```


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```
            - allow-local-fallback boolean
            - cluster-id ipv4-address
            - orr-location number
         - connect-retry number
         - damp-peer-oscillations
            - error-interval number
            - idle-hold-time
               - initial-wait number
               - max-wait number
               - second-wait number
         - damping boolean
         - def-recv-evpn-encap keyword
         - default-label-preference
            - ebgp number
            - ibgp number
         - default-preference
            - ebgp number
            - ibgp number
         - default-route-target boolean
         - description description
         - dynamic-neighbor
            - interface interface-name
               - allowed-peer-as string
               - apply-groups reference
               - apply-groups-exclude reference
               - max-sessions number
            - match
               - prefix (ipv4-prefix | ipv6-prefix)
                  - allowed-peer-as string
                  - apply-groups reference
                  - apply-groups-exclude reference
         - dynamic-neighbor-limit number
         - ebgp-default-reject-policy
            - export boolean
            - import boolean
         - egress-engineering
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
         - egress-peer-engineering-label-unicast boolean
         - enforce-first-as boolean
         - error-handling
            - update-fault-tolerance boolean
         - export
            - apply-groups reference
            - apply-groups-exclude reference
            - policy (policy-expr-string | string)
         - extended-nh-encoding
            - ipv4 boolean
            - label-ipv4 boolean
            - vpn-ipv4 boolean
         - family
            - bgp-ls boolean
            - evpn boolean
            - flow-ipv6 boolean
            - flow-vpn-ipv4 boolean
            - flow-vpn-ipv6 boolean
            - ipv4 boolean
            - ipv6 boolean
            - l2-vpn boolean
            - label-ipv4 boolean
            - label-ipv6 boolean
            - mcast-ipv4 boolean
            - mcast-ipv6 boolean
```


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```
            - mcast-vpn-ipv4 boolean
            - mcast-vpn-ipv6 boolean
            - mdt-safi boolean
            - ms-pw boolean
            - route-target boolean
            - sr-policy-ipv4 boolean
            - sr-policy-ipv6 boolean
            - vpn-ipv4 boolean
            - vpn-ipv6 boolean
         - fast-external-failover boolean
         - graceful-restart
            - gr-notification boolean
            - long-lived
               - advertise-stale-to-all-neighbors boolean
               - advertised-stale-time number
               - family keyword
                  - advertised-stale-time number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - helper-override-stale-time number
               - forwarding-bits-set keyword
               - helper-override-restart-time number
               - helper-override-stale-time number
               - without-no-export boolean
            - restart-time number
            - stale-routes-time number
         - hold-time
            - minimum-hold-time number
            - seconds number
         - import
            - apply-groups reference
            - apply-groups-exclude reference
            - policy (policy-expr-string | string)
         - initial-send-delay-zero boolean
         - keepalive number
         - label-preference number
         - link-bandwidth
            - accept-from-ebgp
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - add-to-received-ebgp
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - aggregate-used-paths
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - send-to-ebgp
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
```


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```
                  - vpn-ipv6 boolean
            - local-address (ipv4-address-no-zone | ipv6-address-no-zone | interface-name)
            - local-as
               - as-number number
               - prepend-global-as boolean
               - private boolean
            - local-preference number
            - loop-detect keyword
            - loop-detect-threshold number
            - med-out (number | keyword)
            - min-route-advertisement number
            - multihop number
            - multipath-eligible boolean
            - next-hop-self boolean
            - next-hop-unchanged
               - evpn boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - origin-validation
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
            - outbound-route-filtering
               - extended-community
                  - accept-orf boolean
                  - send-orf
                     - route-target named-item
            - passive boolean
            - path-mtu-discovery boolean
            - peer-as number
            - peer-ip-tracking boolean
            - preference number
            - prefix-limit keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - hold-excess number
               - idle-timeout number
               - log-only boolean
               - maximum number
               - post-import boolean
               - threshold number
            - remove-private
               - limited boolean
               - replace boolean
               - skip-peer-as boolean
            - selective-label-ipv4-install boolean
            - send-communities
               - extended boolean
               - large boolean
               - standard boolean
            - send-default
               - export-policy reference
               - ipv4 boolean
               - ipv6 boolean
            - split-horizon boolean
            - static-group boolean
            - tcp-mss (number | keyword)
            - third-party-nexthop boolean
            - ttl-security number
            - type keyword
            - vpn-apply-export boolean
```


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configure router bgp group vpn-apply-import

```
            - vpn-apply-import boolean
         - hold-time
            - minimum-hold-time number
            - seconds number
         - ibgp-multipath boolean
         - import
            - apply-groups reference
            - apply-groups-exclude reference
            - policy (policy-expr-string | string)
         - initial-send-delay-zero boolean
         - inter-as-vpn boolean
         - keepalive number
         - label-allocation
            - label-ipv6
               - explicit-null boolean
         - label-preference number
         - link-state-route-export boolean
         - link-state-route-import boolean
         - local-as
            - as-number number
            - prepend-global-as boolean
            - private boolean
         - local-preference number
         - loop-detect keyword
         - loop-detect-threshold number
         - med-out (number | keyword)
         - min-route-advertisement number
         - mp-bgp-keep boolean
         - multihop number
         - multipath
            - ebgp number
            - family keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - ebgp number
               - ibgp number
               - max-paths number
               - restrict keyword
               - unequal-cost boolean
            - ibgp number
            - max-paths number
            - restrict keyword
            - unequal-cost boolean
         - neighbor (ipv4-address-with-zone | ipv6-address-with-zone)
            - add-paths
               - evpn
                  - receive boolean
                  - send (number | keyword)
               - ipv4
                  - receive boolean
                  - send (number | keyword)
               - ipv6
                  - receive boolean
                  - send (number | keyword)
               - label-ipv4
                  - receive boolean
                  - send (number | keyword)
               - label-ipv6
                  - receive boolean
                  - send (number | keyword)
               - vpn-ipv4
                  - receive boolean
                  - send (number | keyword)
               - vpn-ipv6
```


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```
                  - receive boolean
                  - send (number | keyword)
            - admin-state keyword
            - advertise-inactive boolean
            - advertise-ipv6-next-hops
               - evpn boolean
               - ipv4 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - advertise-ldp-prefix boolean
            - aggregator-id-zero boolean
            - aigp boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - as-override boolean
            - asn-4-byte boolean
            - authentication-key encrypted-leaf
            - authentication-keychain reference
            - bfd-liveness boolean
            - bfd-strict-mode
               - advertise
                  - holdtime number
               - next-hop-reachability boolean
            - block-prefix-sid boolean
            - capability-negotiation boolean
            - client-reflect boolean
            - cluster
               - allow-local-fallback boolean
               - cluster-id ipv4-address
               - orr-location number
            - connect-retry number
            - damp-peer-oscillations
               - error-interval number
               - idle-hold-time
                  - initial-wait number
                  - max-wait number
                  - second-wait number
            - damping boolean
            - def-recv-evpn-encap keyword
            - default-label-preference
               - ebgp number
               - ibgp number
            - default-preference
               - ebgp number
               - ibgp number
            - default-route-target boolean
            - description description
            - ebgp-default-reject-policy
               - export boolean
               - import boolean
            - egress-engineering
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
            - egress-peer-engineering-label-unicast boolean
            - enforce-first-as boolean
            - error-handling
               - update-fault-tolerance boolean
            - export
               - apply-groups reference
               - apply-groups-exclude reference
               - policy (policy-expr-string | string)
```


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```
            - extended-nh-encoding
               - ipv4 boolean
               - label-ipv4 boolean
               - vpn-ipv4 boolean
            - family
               - bgp-ls boolean
               - evpn boolean
               - flow-ipv6 boolean
               - flow-vpn-ipv4 boolean
               - flow-vpn-ipv6 boolean
               - ipv4 boolean
               - ipv6 boolean
               - l2-vpn boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - mcast-ipv4 boolean
               - mcast-ipv6 boolean
               - mcast-vpn-ipv4 boolean
               - mcast-vpn-ipv6 boolean
               - mdt-safi boolean
               - ms-pw boolean
               - route-target boolean
               - sr-policy-ipv4 boolean
               - sr-policy-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - fast-external-failover boolean
            - graceful-restart
               - gr-notification boolean
               - long-lived
                  - advertise-stale-to-all-neighbors boolean
                  - advertised-stale-time number
                  - family keyword
                     - advertised-stale-time number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - helper-override-stale-time number
                  - forwarding-bits-set keyword
                  - helper-override-restart-time number
                  - helper-override-stale-time number
                  - without-no-export boolean
               - restart-time number
               - stale-routes-time number
            - group reference
            - hold-time
               - minimum-hold-time number
               - seconds number
            - import
               - apply-groups reference
               - apply-groups-exclude reference
               - policy (policy-expr-string | string)
            - initial-send-delay-zero boolean
            - keepalive number
            - l2vpn-cisco-interop boolean
            - label-preference number
            - link-bandwidth
               - accept-from-ebgp
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
                  - label-ipv6 boolean
                  - vpn-ipv4 boolean
                  - vpn-ipv6 boolean
               - add-to-received-ebgp
```


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```
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
                  - label-ipv6 boolean
                  - vpn-ipv4 boolean
                  - vpn-ipv6 boolean
               - aggregate-used-paths
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
                  - label-ipv6 boolean
                  - vpn-ipv4 boolean
                  - vpn-ipv6 boolean
               - send-to-ebgp
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
                  - label-ipv6 boolean
                  - vpn-ipv4 boolean
                  - vpn-ipv6 boolean
            - local-address (ipv4-address-no-zone | ipv6-address-no-zone | interface-name)
            - local-as
               - as-number number
               - prepend-global-as boolean
               - private boolean
            - local-preference number
            - loop-detect keyword
            - loop-detect-threshold number
            - med-out (number | keyword)
            - min-route-advertisement number
            - multihop number
            - multipath-eligible boolean
            - next-hop-self boolean
            - next-hop-unchanged
               - evpn boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
               - vpn-ipv4 boolean
               - vpn-ipv6 boolean
            - origin-validation
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - label-ipv6 boolean
            - outbound-route-filtering
               - extended-community
                  - accept-orf boolean
                  - send-orf
                     - route-target named-item
            - passive boolean
            - path-mtu-discovery boolean
            - peer-as number
            - peer-creation-type keyword
            - peer-ip-tracking boolean
            - preference number
            - prefix-limit keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - hold-excess number
               - idle-timeout number
               - log-only boolean
               - maximum number
               - post-import boolean
               - threshold number
```


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```
            - remove-private
               - limited boolean
               - replace boolean
               - skip-peer-as boolean
            - selective-label-ipv4-install boolean
            - send-communities
               - extended boolean
               - large boolean
               - standard boolean
            - send-default
               - export-policy reference
               - ipv4 boolean
               - ipv6 boolean
            - split-horizon boolean
            - tcp-mss (number | keyword)
            - third-party-nexthop boolean
            - ttl-security number
            - type keyword
            - vpn-apply-export boolean
            - vpn-apply-import boolean
         - neighbor-trust
            - evpn boolean
            - vpn-ipv4 boolean
            - vpn-ipv6 boolean
         - next-hop-resolution
            - allow-unresolved-leaking boolean
            - labeled-routes
               - allow-static boolean
               - rr-use-route-table boolean
               - transport-tunnel
                  - family keyword
                     - allow-flex-algo-fallback boolean
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - enforce-strict-tunnel-tagging boolean
                     - enforce-untagged-route keyword
                     - resolution keyword
                     - resolution-filter
                        - bgp boolean
                        - ldp boolean
                        - rsvp boolean
                        - sr-isis boolean
                        - sr-ospf boolean
                        - sr-ospf3 boolean
                        - sr-policy boolean
                        - sr-te boolean
                        - udp boolean
               - use-bgp-routes
                  - label-ipv6-explicit-null boolean
            - policy reference
            - shortcut-tunnel
               - family keyword
                  - allow-flex-algo-fallback boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - disallow-igp boolean
                  - enforce-strict-tunnel-tagging boolean
                  - enforce-untagged-route keyword
                  - resolution keyword
                  - resolution-filter
                     - bgp boolean
                     - ldp boolean
                     - rsvp boolean
                     - sr-isis boolean
```


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```
                  - sr-ospf boolean
                  - sr-ospf3 boolean
                  - sr-policy boolean
                  - sr-te boolean
            - use-bgp-routes boolean
            - use-leaked-routes
               - static boolean
            - vpn-family-policy reference
            - weighted-ecmp boolean
         - optimal-route-reflection
            - location number
               - apply-groups reference
               - apply-groups-exclude reference
               - primary-ip-address ipv4-unicast-address
               - primary-ipv6-address ipv6-unicast-address
               - secondary-ip-address ipv4-unicast-address
               - secondary-ipv6-address ipv6-unicast-address
               - tertiary-ip-address ipv4-unicast-address
               - tertiary-ipv6-address ipv6-unicast-address
            - spf-wait
               - initial-wait number
               - max-wait number
               - second-wait number
         - outbound-route-filtering
            - extended-community
               - accept-orf boolean
               - send-orf
                  - route-target named-item
         - override-tunnel-elc boolean
         - path-mtu-discovery boolean
         - peer-ip-tracking boolean
         - peer-tracking-policy reference
         - preference number
         - purge-timer number
         - rapid-update
            - evpn boolean
            - ipv4 boolean
            - ipv6 boolean
            - l2-vpn boolean
            - label-ipv4 boolean
            - label-ipv6 boolean
            - mcast-vpn-ipv4 boolean
            - mcast-vpn-ipv6 boolean
            - mdt-safi boolean
            - vpn-ipv4 boolean
            - vpn-ipv6 boolean
         - rapid-withdrawal boolean
         - remove-private
            - limited boolean
            - replace boolean
            - skip-peer-as boolean
         - rib-management
            - ipv4
               - leak-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
               - route-table-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy-name reference
            - ipv6
               - leak-import
                  - apply-groups reference
```


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```
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
               - route-table-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy-name reference
            - label-ipv4
               - leak-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
               - route-table-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy-name reference
            - label-ipv6
               - route-table-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy-name reference
         - route-table-install boolean
         - route-target-list named-item
         - router-id ipv4-address
         - rr-vpn-forwarding boolean
         - segment-routing
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - prefix-sid-range
               - global
               - max-index number
               - start-label number
         - selective-label-ip keyword
         - selective-label-ip-prioritization boolean
         - selective-label-ipv4-install boolean
         - send-communities
            - extended boolean
            - large boolean
            - standard boolean
         - send-default
            - export-policy reference
            - ipv4 boolean
            - ipv6 boolean
         - split-horizon boolean
         - sr-policy-import boolean
         - subconfed-vpn-forwarding boolean
         - tcp-mss number
         - third-party-nexthop boolean
         - vpn-apply-export boolean
         - vpn-apply-import boolean
      - confederation
         - confed-as-num number
         - members number
      - description description
      - dhcp-server
         - apply-groups reference
         - apply-groups-exclude reference
         - dhcpv4 named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - failover
               - admin-state keyword
```


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configure router dhcp-server dhcpv4 failover apply-groups

```
            - apply-groups reference
            - apply-groups-exclude reference
            - ignore-mclt-on-takeover boolean
            - maximum-client-lead-time number
            - partner-down-delay number
            - peer reference
               - apply-groups reference
               - apply-groups-exclude reference
               - sync-tag named-item
            - startup-wait-time number
         - force-renews boolean
         - lease-hold
            - additional-scenarios
               - fwa-address-assignment boolean
               - internal-lease-ipsec boolean
               - solicited-release boolean
            - time number
         - pool named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - failover
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - ignore-mclt-on-takeover boolean
               - maximum-client-lead-time number
               - partner-down-delay number
               - peer reference
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - sync-tag named-item
               - startup-wait-time number
            - max-lease-time number
            - min-lease-time number
            - minimum-free
               - absolute number
               - event-when-depleted boolean
               - percent number
            - nak-non-matching-subnet boolean
            - offer-time number
            - options
               - option (number | keyword)
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ascii-string string-not-all-spaces
                  - duration number
                  - empty
                  - hex-string hex-string
                  - ipv4-address ipv4-address
                  - netbios-node-type keyword
            - subnet ipv4-unicast-prefix
               - address-range ipv4-unicast-address end ipv4-unicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - failover-control-type keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - drain boolean
               - exclude-addresses ipv4-unicast-address end ipv4-unicast-address
               - maximum-declined number
               - minimum-free
                  - absolute number
                  - event-when-depleted boolean
```


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configure router dhcp-server dhcpv4 pool subnet minimum-free percent

```
                  - percent number
               - options
                  - option (number | keyword)
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - ascii-string string-not-all-spaces
                     - duration number
                     - empty
                     - hex-string hex-string
                     - ipv4-address ipv4-address
                     - netbios-node-type keyword
            - pool-selection
               - use-gi-address
                  - scope keyword
               - use-pool-from-client
                  - delimiter string-not-all-spaces
            - user-db reference
            - user-identification keyword
         - dhcpv6 named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - auto-provisioned boolean
            - defaults
               - apply-groups reference
               - apply-groups-exclude reference
               - options
                  - option (number | keyword)
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - ascii-string string-not-all-spaces
                     - domain-string string
                     - duration number
                     - empty
                     - hex-string hex-string
                     - ipv6-address ipv6-address
               - preferred-lifetime number
               - rebind-time number
               - renew-time number
               - valid-lifetime number
            - description description
            - failover
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - ignore-mclt-on-takeover boolean
               - maximum-client-lead-time number
               - partner-down-delay number
               - peer reference
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - sync-tag named-item
               - startup-wait-time number
            - ignore-rapid-commit boolean
            - interface-id-mapping boolean
            - lease-hold
               - additional-scenarios
                  - fwa-address-assignment boolean
                  - internal-lease-ipsec boolean
                  - solicited-release boolean
               - time number
            - lease-query boolean
            - pool named-item
               - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - delegated-prefix
               - length number
               - maximum number
               - minimum number
            - description description
            - exclude-prefix ipv6-prefix
            - failover
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - ignore-mclt-on-takeover boolean
               - maximum-client-lead-time number
               - partner-down-delay number
               - peer reference
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - sync-tag named-item
               - startup-wait-time number
            - options
               - option (number | keyword)
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ascii-string string-not-all-spaces
                  - domain-string string
                  - duration number
                  - empty
                  - hex-string hex-string
                  - ipv6-address ipv6-address
            - prefix ipv6-prefix
               - apply-groups reference
               - apply-groups-exclude reference
               - drain boolean
               - failover-control-type keyword
               - options
                  - option (number | keyword)
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - ascii-string string-not-all-spaces
                     - domain-string string
                     - duration number
                     - empty
                     - hex-string hex-string
                     - ipv6-address ipv6-address
               - preferred-lifetime number
               - prefix-length-threshold number
                  - absolute number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - event-when-depleted boolean
                  - percent number
               - prefix-type
                  - pd boolean
                  - wan-host boolean
               - rebind-time number
               - renew-time number
               - valid-lifetime number
            - prefix-length-threshold number
               - apply-groups reference
               - apply-groups-exclude reference
               - event-when-depleted boolean
               - minimum-free-percent number
         - pool-selection
            - use-link-address
```


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```
                  – scope keyword
               – use-pool-from-client
                  – delimiter string-not-all-spaces
            – server-id
               – apply-groups reference
               – apply-groups-exclude reference
               – duid-enterprise
                  – ascii-string string-not-all-spaces
                  – hex-string hex-string
               – duid-link-local
            – user-db reference
            – user-identification keyword
      – dns
         – redirect-vprn
            – service reference
               – apply-groups reference
               – apply-groups-exclude reference
               – preference number
      – ecmp number
      – entropy-label boolean
      – evpn-neighbor-synchronization
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – evi-route-target evi-route-target
         – retention-timer number
         – route-distinguisher vpn-route-distinguisher
         – route-tag number
      – fib-priority keyword
      – icmp-tunneling boolean
      – igmp
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – group-if-query-source-address ipv4-unicast-address
         – interface interface-name
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – import-policy reference
            – maximum-number-group-sources number
            – maximum-number-groups number
            – maximum-number-sources number
            – query-interval number
            – query-last-member-interval number
            – query-response-interval number
            – redundant-mcast boolean
            – router-alert-check boolean
            – ssm-translate
               – group-range start ipv4-multicast-address end ipv4-multicast-address
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – source ipv4-unicast-address
            – static
               – group ipv4-multicast-address
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – source ipv4-unicast-address
                  – starg
               – group-range start ipv4-multicast-address end ipv4-multicast-
address step ipv4-address
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – source ipv4-unicast-address
```


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configure router igmp interface static group-range starg

```
                - starg
            - subnet-check boolean
            - version keyword
         - query-interval number
         - query-last-member-interval number
         - query-response-interval number
         - robust-count number
         - ssm-translate
            - group-range start ipv4-multicast-address end ipv4-multicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - source ipv4-unicast-address
      - interface interface-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - autoconfigure
            - ipv4
               - dhcp-client
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - class-id
                     - ascii-string string
                     - hex-string hex-string
                  - client-id
                     - ascii-string string
                     - hex-string hex-string
                     - interface
                     - mac
                  - lease-time (number | keyword)
                  - request-options
                     - dns-server boolean
                     - router boolean
                     - static-route boolean
         - description very-long-description
         - dist-cpu-protection reference
         - egress
            - filter
               - ip reference
               - ipv6 reference
         - eth-cfm
            - mep md-admin-name reference ma-admin-name reference mep-id number
               - admin-state keyword
               - alarm-notification
                  - fng-alarm-time number
                  - fng-reset-time number
               - apply-groups reference
               - apply-groups-exclude reference
               - ccm boolean
               - ccm-ltm-priority number
               - ccm-tlv-ignore keyword
               - description description
               - eth-test
                  - bit-error-threshold number
                  - test-pattern
                     - crc-tlv boolean
                     - pattern keyword
               - facility-fault boolean
               - low-priority-defect keyword
               - mac-address mac-unicast-address-no-zero
               - one-way-delay-threshold number
         - flavor keyword
         - hold-time
```


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configure router interface hold-time ipv4

```
            - ipv4
               - down
                  - init-only boolean
                  - seconds number
               - up
                  - seconds number
            - ipv6
               - down
                  - init-only boolean
                  - seconds number
               - up
                  - seconds number
         - if-attribute
            - admin-group reference
            - delay
               - dynamic
               - static number
            - srlg-group reference
         - ingress
            - filter
               - ip reference
               - ipv6 reference
         - ip-mtu number
         - ipsec
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - ip-exception reference
            - ipsec-tunnel named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - bfd
                  - bfd-designate boolean
                  - bfd-liveness
                     - dest-ip ipv4-unicast-address
                     - interface interface-name
                     - service-name service-name
               - clear-df-bit boolean
               - copy-traffic-class-upon-decapsulation boolean
               - description description
               - encapsulated-ip-mtu number
               - icmp-generation
                  - frag-required
                     - admin-state keyword
                     - interval number
                     - message-count number
               - icmp6-generation
                  - packet-too-big
                     - admin-state keyword
                     - interval number
                     - message-count number
               - ip-mtu number
               - key-exchange
                  - dynamic
                     - auto-establish boolean
                     - auto-establish-sustain boolean
                     - cert
                        - cert-profile reference
                        - status-verify
                           - default-result keyword
                           - primary keyword
                           - secondary keyword
                        - trust-anchor-profile reference
```


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```
                    - id
                       - fqdn fully-qualified-domain-name
                       - ipv4 ipv4-unicast-address
                       - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                    - ike-policy reference
                    - ipsec-transform reference
                    - ppk
                       - id reference
                       - list reference
                    - pre-shared-key encrypted-leaf
                    - reverse-route-injection
                       - metric number
                       - preference number
                 - manual
                    - keys number direction keyword
                       - apply-groups reference
                       - apply-groups-exclude reference
                       - authentication-key hex-string
                       - encryption-key hex-string
                       - ipsec-transform reference
                       - spi number
              - local-gateway-address-override (ipv4-address-no-zone | ipv6-address-no-zone)
              - max-history-key-records
                 - esp number
                 - ike number
              - pmtu-discovery-aging number
              - private-sap number
              - private-service service-name
              - private-tcp-mss-adjust number
              - propagate-pmtu-v4 boolean
              - propagate-pmtu-v6 boolean
              - public-tcp-mss-adjust (number | keyword)
              - remote-gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
              - replay-window number
              - security-policy
                 - id number
                 - strict-match boolean
           - ipv6-exception reference
           - public-sap number
           - tunnel-group reference
        - ipv4
           - allow-directed-broadcasts boolean
           - bfd
              - admin-state keyword
              - echo-receive number
              - multiplier number
              - receive number
              - transmit-interval number
           - dhcp
              - admin-state keyword
              - apply-groups reference
              - apply-groups-exclude reference
              - description description
              - gi-address ipv4-unicast-address
              - option-82
                 - action keyword
                 - circuit-id
                    - ascii-tuple
                    - if-name
                    - ifindex
                    - none
                    - port-id
                    - vlan-ascii-tuple
                 - remote-id
```


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```
                  - ascii-string string-not-all-spaces
                  - mac
                  - none
               - vendor-specific-option
                  - client-mac-address boolean
                  - pool-name boolean
                  - port-id boolean
                  - service-id boolean
                  - string string-not-all-spaces
                  - system-id boolean
            - relay-plain-bootp boolean
            - server ipv4-unicast-address
            - src-ip-addr keyword
            - trusted boolean
         - icmp
            - mask-reply boolean
            - param-problem
               - admin-state keyword
               - number number
               - seconds number
            - redirects
               - admin-state keyword
               - number number
               - seconds number
            - ttl-expired
               - admin-state keyword
               - number number
               - seconds number
            - unreachables
               - admin-state keyword
               - number number
               - seconds number
         - ip-helper-address ipv4-unicast-address
         - local-dhcp-server reference
         - nat
            - apply-groups reference
            - apply-groups-exclude reference
            - cpm-nat-policy reference
            - cpm-spf-nat-policy reference
         - neighbor-discovery
            - learn-unsolicited boolean
            - limit
               - log-only boolean
               - max-entries number
               - threshold number
            - local-proxy-arp boolean
            - proactive-refresh boolean
            - proxy-arp-policy reference
            - remote-proxy-arp boolean
            - retry-timer number
            - static-neighbor ipv4-address
               - apply-groups reference
               - apply-groups-exclude reference
               - mac-address mac-address
            - static-neighbor-unnumbered
               - mac-address mac-address
            - timeout number
         - primary
            - address ipv4-unicast-address
            - apply-groups reference
            - apply-groups-exclude reference
            - broadcast keyword
            - gre-termination boolean
            - prefix-length number
```


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```
            - tag (number | keyword)
         - secondary ipv4-unicast-address
            - apply-groups reference
            - apply-groups-exclude reference
            - broadcast keyword
            - igp-inhibit boolean
            - prefix-length number
            - tag (number | keyword)
         - tcp-mss number
         - unnumbered
            - ip-address ipv4-unicast-address
            - ip-int-name interface-name
            - system
         - urpf-check
            - ignore-default boolean
            - mode keyword
         - vrrp number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication-key encrypted-leaf
            - backup ipv4-unicast-address
            - bfd-liveness
               - apply-groups reference
               - apply-groups-exclude reference
               - dest-ip ipv4-address
               - interface-name interface-name
               - service-name service-name
            - init-delay number
            - mac mac-unicast-address
            - master-int-inherit boolean
            - message-interval number
            - monitor-oper-group reference
            - ntp-reply boolean
            - oper-group reference
            - owner boolean
            - passive boolean
            - ping-reply boolean
            - policy reference
            - preempt boolean
            - priority number
            - ssh-reply boolean
            - standby-forwarding boolean
            - telnet-reply boolean
            - traceroute-reply boolean
      - ipv6
         - address ipv6-address
            - apply-groups reference
            - apply-groups-exclude reference
            - duplicate-address-detection boolean
            - eui-64 boolean
            - prefix-length number
            - primary-preference number
            - tag (number | keyword)
         - bfd
            - admin-state keyword
            - echo-receive number
            - multiplier number
            - receive number
            - transmit-interval number
         - duplicate-address-detection boolean
         - forward-ipv4-packets boolean
         - icmp6
            - packet-too-big
```


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```
                  - admin-state keyword
                  - number number
                  - seconds number
               - param-problem
                  - admin-state keyword
                  - number number
                  - seconds number
               - redirects
                  - admin-state keyword
                  - number number
                  - seconds number
               - time-exceeded
                  - admin-state keyword
                  - number number
                  - seconds number
               - unreachables
                  - admin-state keyword
                  - number number
                  - seconds number
            - link-local-address
               - address ipv6-address
               - duplicate-address-detection boolean
            - local-dhcp-server reference
            - neighbor-discovery
               - learn-unsolicited keyword
               - limit
                  - log-only boolean
                  - max-entries number
                  - threshold number
               - local-proxy-nd boolean
               - proactive-refresh keyword
               - proxy-nd-policy reference
               - reachable-time number
               - stale-time number
               - static-neighbor ipv6-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac-address mac-address
            - tcp-mss number
            - urpf-check
               - ignore-default boolean
               - mode keyword
            - vrrp number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - backup ipv6-address
               - bfd-liveness
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - interface-name interface-name
                  - service-name service-name
               - init-delay number
               - mac mac-unicast-address
               - master-int-inherit boolean
               - message-interval number
               - monitor-oper-group reference
               - ntp-reply boolean
               - oper-group reference
               - owner boolean
               - passive boolean
               - ping-reply boolean
               - policy reference
```


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configure router interface ipv6 vrrp preempt

```
            - preempt boolean
            - priority number
            - standby-forwarding boolean
            - telnet-reply boolean
            - traceroute-reply boolean
         - lag
         - ldp-sync-timer
            - end-of-lib boolean
            - seconds number
         - load-balancing
            - ip-load-balancing keyword
            - lsr-load-balancing keyword
         - loopback
         - mac mac-unicast-address
         - mac-accounting boolean
         - network-domains
            - network-domain reference
         - port (port-and-encap | keyword)
         - ptp-hw-assist
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
         - qos
            - apply-groups reference
            - apply-groups-exclude reference
            - egress-instance number
            - egress-port-redirect-group reference
            - ingress-fp-redirect-group reference
            - ingress-instance number
            - network-policy reference
         - tos-marking-state keyword
         - untrusted
            - default-forwarding keyword
         - urpf-selected-vprns boolean
         - vas-if-type keyword
      - ipsec
         - multi-chassis-shunt-interface interface-name
            - apply-groups reference
            - apply-groups-exclude reference
            - next-hop
               - address (ipv4-address-no-zone | ipv6-address-no-zone)
         - multi-chassis-shunting-profile named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - peer reference
               - apply-groups reference
               - apply-groups-exclude reference
               - multi-chassis-shunt-interface reference
         - security-policy number
            - apply-groups reference
            - apply-groups-exclude reference
            - entry number
               - apply-groups reference
               - apply-groups-exclude reference
               - local-ip
                  - address ipv4-prefix
                  - any boolean
               - local-ipv6
                  - address ipv6-prefix
                  - any boolean
               - remote-ip
                  - address ipv4-prefix
                  - any boolean
               - remote-ipv6
```


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```
                - address ipv6-prefix
                - any boolean
      - ipv6
         - neighbor-discovery
            - reachable-time number
            - stale-time number
         - router-advertisement
            - apply-groups reference
            - apply-groups-exclude reference
            - dns-options
               - apply-groups reference
               - apply-groups-exclude reference
               - rdnss-lifetime (keyword | number)
               - server ipv6-address
            - interface interface-name
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - current-hop-limit number
               - dns-options
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - include-rdnss boolean
                  - rdnss-lifetime (number | keyword)
                  - server ipv6-address
               - managed-configuration boolean
               - max-advertisement-interval number
               - min-advertisement-interval number
               - mtu number
               - nd-router-preference keyword
               - other-stateful-configuration boolean
               - prefix ipv6-prefix
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - autonomous boolean
                  - on-link boolean
                  - preferred-lifetime (keyword | number)
                  - valid-lifetime (keyword | number)
               - reachable-time number
               - retransmit-time number
               - router-lifetime number
               - use-virtual-mac boolean
      - ipv6-te-router-id
         - interface reference
      - isis number
         - additional-system-id system-id-no-default
         - admin-state keyword
         - advertise-passive-only boolean
         - advertise-router-capability keyword
         - advertise-tunnel-link boolean
         - all-l1isis mac-address
         - all-l2isis mac-address
         - apply-groups reference
         - apply-groups-exclude reference
         - area-address area-address
         - authentication-check boolean
         - authentication-key encrypted-leaf
         - authentication-keychain reference
         - authentication-type keyword
         - csnp-authentication boolean
         - csnp-on-p2p boolean
         - database-export
            - bgp-ls-identifier
               - value number
```


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```
            - igp-identifier number
            - reachable-ls-only boolean
         - default-route-tag number
         - entropy-label
            - override-tunnel-elc boolean
         - export-limit
            - log-percent number
            - number number
         - export-policy reference
         - flexible-algorithms
            - admin-state keyword
            - advertise-admin-group keyword
            - flex-algo number
               - advertise reference
               - apply-groups reference
               - apply-groups-exclude reference
               - loopfree-alternate
               - micro-loop-avoidance
               - participate boolean
         - graceful-restart
            - helper-mode boolean
         - hello-authentication boolean
         - hello-padding keyword
         - ignore-attached-bit boolean
         - ignore-lsp-errors boolean
         - ignore-narrow-metric boolean
         - igp-shortcut
            - admin-state keyword
            - allow-sr-over-srte boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - tunnel-next-hop
               - family keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - resolution keyword
                  - resolution-filter
                     - rsvp boolean
                     - sr-te boolean
         - iid-tlv boolean
         - import-policy reference
         - interface interface-name
            - adjacency-set reference
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - bfd-liveness
               - ipv4
                  - include-bfd-tlv boolean
               - ipv6
                  - include-bfd-tlv boolean
            - conditional-advertise-prefix reference
            - csnp-interval number
            - default-instance boolean
            - delay-normalization
               - delay-tolerance-interval number
               - minimum-delay number
            - flex-algo number
               - apply-groups reference
               - apply-groups-exclude reference
               - ipv4-node-sid
                  - index number
                  - label number
               - ipv6-node-sid
```


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```
                  - index number
                  - label number
            - hello-authentication boolean
            - hello-authentication-key encrypted-leaf
            - hello-authentication-keychain reference
            - hello-authentication-type keyword
            - hello-padding keyword
            - interface-type keyword
            - ipv4-adjacency-sid
               - label number
            - ipv4-multicast boolean
            - ipv4-node-sid
               - clear-n-flag boolean
               - index number
               - label number
            - ipv6-adjacency-sid
               - label number
            - ipv6-multicast boolean
            - ipv6-node-sid
               - clear-n-flag boolean
               - index number
               - label number
            - ipv6-unicast boolean
            - level keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - hello-authentication-key encrypted-leaf
               - hello-authentication-keychain reference
               - hello-authentication-type keyword
               - hello-interval number
               - hello-multiplier number
               - hello-padding keyword
               - ipv4-multicast-metric number
               - ipv6-multicast-metric number
               - ipv6-unicast-metric number
               - metric number
               - passive boolean
               - priority number
               - sd-offset number
               - sf-offset number
            - level-capability keyword
            - load-balancing-weight number
            - loopfree-alternate
               - exclude boolean
               - policy-map
                  - route-nh-template reference
            - lsp-pacing-interval number
            - mesh-group
               - blocked
               - value number
            - passive boolean
            - retransmit-interval number
            - sid-protection boolean
            - tag number
         - ipv4-multicast-routing keyword
         - ipv4-routing boolean
         - ipv6-multicast-routing keyword
         - ipv6-routing keyword
         - ldp-over-rsvp boolean
         - ldp-sync boolean
         - level keyword
            - advertise-router-capability boolean
            - apply-groups reference
            - apply-groups-exclude reference
```


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```
            - authentication-key encrypted-leaf
            - authentication-keychain reference
            - authentication-type keyword
            - csnp-authentication boolean
            - database-export-exclude boolean
            - default-ipv4-multicast-metric number
            - default-ipv6-multicast-metric number
            - default-ipv6-unicast-metric number
            - default-metric number
            - external-preference number
            - hello-authentication boolean
            - hello-padding keyword
            - loopfree-alternate-exclude boolean
            - lsp-mtu-size number
            - preference number
            - psnp-authentication boolean
            - wide-metrics-only boolean
         - level-capability keyword
         - link-group named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description very-long-description
            - level keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - ipv4-multicast-metric-offset number
               - ipv4-unicast-metric-offset number
               - ipv6-multicast-metric-offset number
               - ipv6-unicast-metric-offset number
               - member reference
               - oper-members number
               - revert-members number
         - loopfree-alternate
            - augment-route-table boolean
            - exclude
               - prefix-policy reference
            - multi-homed-prefix
               - preference keyword
            - remote-lfa
               - max-pq-cost number
               - node-protect
                  - max-pq-nodes number
            - ti-lfa
               - max-sr-frr-labels number
               - node-protect
         - lsp-lifetime number
         - lsp-minimum-remaining-lifetime number
         - lsp-mtu-size number
         - lsp-refresh
            - half-lifetime boolean
            - interval number
         - multi-part-tlv
            - apply-groups reference
            - apply-groups-exclude reference
            - neighbor boolean
            - srlg boolean
         - multi-topology
            - ipv4-multicast boolean
            - ipv6-multicast boolean
            - ipv6-unicast boolean
         - multicast-import
            - ipv4 boolean
            - ipv6 boolean
         - overload
```


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```
            - max-metric boolean
         - overload-export-external boolean
         - overload-export-interlevel boolean
         - overload-fib-error-notify-only
            - retry number
         - overload-include-locators boolean
         - overload-on-boot
            - max-metric boolean
            - timeout number
         - poi-tlv boolean
         - prefix-attributes-tlv boolean
         - prefix-limit
            - limit number
            - log-only boolean
            - overload-timeout (number | keyword)
            - warning-threshold number
         - prefix-unreachable
            - maximum-number-upas number
            - process-received-upa boolean
            - upa-lifetime number
            - upa-metric number
         - psnp-authentication boolean
         - reference-bandwidth number
         - rib-priority
            - high
               - prefix-list reference
               - tag number
         - router-id router-id
         - segment-routing
            - adj-sid-hold (number | keyword)
            - adjacency-set number
               - advertise boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - family keyword
               - parallel boolean
               - sid
                  - label number
            - adjacency-sid
               - allocate-dual-sids boolean
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - entropy-label boolean
            - export-tunnel-table keyword
            - mapping-server
               - admin-state keyword
               - node-sid-map number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - clear-n-flag boolean
                  - ip-prefix ipv4-unicast-prefix
                  - level-capability keyword
                  - range number
                  - set-flags
                     - bit-s boolean
            - maximum-sid-depth
               - override-bmi number
               - override-erld number
            - micro-loop-avoidance
               - fib-delay number
            - multi-topology
               - mt2 boolean
            - prefix-sid-range
```


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configure router isis segment-routing prefix-sid-range global

```
            - global
            - max-index number
            - start-label number
         - srlb reference
         - tunnel-mtu number
         - tunnel-table-pref number
      - standard-multi-instance boolean
      - strict-adjacency-check boolean
      - summary-address (ipv4-prefix | ipv6-prefix)
         - advertise-unreachable
            - advertise-route-tag number
            - match-route-tag number
         - apply-groups reference
         - apply-groups-exclude reference
         - level-capability keyword
         - route-tag number
      - suppress-attached-bit boolean
      - system-id system-id
      - timers
         - lsp-wait
            - lsp-initial-wait number
            - lsp-max-wait number
            - lsp-second-wait number
         - spf-wait
            - spf-initial-wait number
            - spf-max-wait number
            - spf-second-wait number
      - traffic-engineering boolean
      - traffic-engineering-options
         - advertise-delay boolean
         - application-link-attributes
            - legacy boolean
         - ipv6 boolean
      - unicast-import
         - ipv4 boolean
         - ipv6 boolean
   - ldp
      - admin-state keyword
      - aggregate-prefix-match
         - admin-state keyword
         - prefix-exclude reference
      - apply-groups reference
      - apply-groups-exclude reference
      - consider-system-ip-in-gep boolean
      - entropy-label-capability boolean
      - export-policy reference
      - export-tunnel-table reference
      - fast-reroute
         - backup-sr-tunnel boolean
      - fec-originate (ipv4-prefix | ipv6-prefix)
         - advertised-label number
         - apply-groups reference
         - apply-groups-exclude reference
         - interface named-item-or-empty
         - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
         - pop boolean
         - swap-label number
      - graceful-restart
         - helper-mode boolean
         - maximum-recovery-time number
         - neighbor-liveness-time number
      - implicit-null-label boolean
      - import-pmsi-routes
      - import-policy reference
```


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```
        - import-tunnel-table reference
        - interface-parameters
            - interface reference
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - bfd-liveness
                    - ipv4 boolean
                - ipv4
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - fec-type-capability
                        - prefix-ipv4 boolean
                    - hello
                        - factor number
                        - timeout number
                    - keepalive
                        - factor number
                        - timeout number
                    - local-lsr-id
                        - interface-name reference
                    - transport-address keyword
                - load-balancing-weight number
            - ipv4
                - hello
                    - factor number
                    - timeout number
                - keepalive
                    - factor number
                    - timeout number
                - transport-address keyword
        - label-withdrawal-delay number
        - ldp-shortcut
            - ipv4 boolean
        - legacy-ipv4-lsr-interop boolean
        - lsp-bfd reference
            - apply-groups reference
            - apply-groups-exclude reference
            - bfd-liveness boolean
            - bfd-template reference
            - failure-action keyword
            - lsp-ping-interval (number | keyword)
            - priority number
            - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
        - max-ecmp-routes number
        - prefer-protocol-stitching boolean
        - prefer-tunnel-in-tunnel boolean
        - session-parameters
            - peer (ipv4-address-no-zone | ipv6-address-no-zone)
                - adv-adj-addr-only boolean
                - adv-local-lsr-id boolean
                - apply-groups reference
                - apply-groups-exclude reference
                - community policy-string
                - dod-label-distribution boolean
                - export-addresses reference
                - export-prefixes reference
                - fec-limit
                    - limit number
                    - log-only boolean
                    - threshold number
                - fec-type-capability
                    - prefix-ipv4 boolean
```


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```
            - fec129-cisco-interop boolean
            - import-prefixes reference
            - pe-id-mac-flush-interop boolean
      - shortcut-local-ttl-propagate boolean
      - shortcut-transit-ttl-propagate boolean
      - targeted-session
         - auto-rx
            - ipv4
               - admin-state keyword
               - tunneling boolean
         - auto-tx
            - ipv4
               - admin-state keyword
               - tunneling boolean
         - export-prefixes reference
         - import-prefixes reference
         - ipv4
            - hello
               - factor number
               - timeout number
            - hello-reduction
               - admin-state keyword
               - factor number
            - keepalive
               - factor number
               - timeout number
         - peer (ipv4-address-no-zone | ipv6-address-no-zone)
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - bfd-liveness boolean
            - hello
               - factor number
               - timeout number
            - hello-reduction
               - admin-state keyword
               - factor number
            - keepalive
               - factor number
               - timeout number
            - local-lsr-id
               - format-32bit boolean
               - interface-name reference
            - tunneling
               - lsp named-item-64
         - peer-template named-item
            - admin-state keyword
            - adv-local-lsr-id boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - bfd-liveness boolean
            - community policy-string
            - hello
               - factor number
               - timeout number
            - hello-reduction
               - admin-state keyword
               - factor number
            - keepalive
               - factor number
               - timeout number
            - local-lsr-id
               - interface-name reference
            - tunneling boolean
```


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```
            - peer-template-map reference
               - apply-groups reference
               - apply-groups-exclude reference
               - policy-map reference
            - resolve-v6-prefix-over-shortcut boolean
            - sdp-auto-targeted-session boolean
         - tcp-session-parameters
            - authentication-key encrypted-leaf
            - authentication-keychain reference
            - peer-transport (ipv4-address-no-zone | ipv6-address-no-zone)
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-key encrypted-leaf
               - authentication-keychain reference
               - path-mtu-discovery boolean
               - ttl-security number
         - tunnel-down-damp-time number
         - tunnel-table-pref number
         - weighted-ecmp boolean
      - leak-export
         - leak-export-limit number
         - policy-name (policy-expr-string | string)
      - lsp-bfd
         - bfd-sessions number
         - tail-end
            - apply-groups reference
            - apply-groups-exclude reference
            - multiplier number
            - receive-interval number
            - transmit-interval number
      - mc-maximum-routes
         - log-only boolean
         - threshold number
         - value number
      - mld
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - group-if-query-source-address ipv6-unicast-or-linklocal-address
         - interface interface-name
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - import-policy reference
            - maximum-number-group-sources number
            - maximum-number-groups number
            - maximum-number-sources number
            - query-interval number
            - query-last-member-interval number
            - query-response-interval number
            - router-alert-check boolean
            - ssm-translate
               - group-range start ipv6-multicast-address end ipv6-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv6-unicast-address
            - static
               - group ipv6-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv6-unicast-address
                  - starg
               - group-range start ipv6-multicast-address end ipv6-multicast-
address step ipv6-address
```


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```
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv6-unicast-address
                  - starg
            - version keyword
         - query-interval number
         - query-last-member-interval number
         - query-response-interval number
         - robust-count number
         - ssm-translate
            - group-range start ipv6-multicast-address end ipv6-multicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - source ipv6-unicast-address
      - mpls
         - admin-group-frr boolean
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - auto-bandwidth-multipliers
            - adjust-multiplier number
            - sample-multiplier number
         - auto-lsp reference
            - apply-groups reference
            - apply-groups-exclude reference
            - one-hop boolean
            - policy reference
         - bypass-resignal-timer number
         - cspf-on-loose-hop boolean
         - dynamic-bypass boolean
         - entropy-label
            - rsvp-te boolean
            - sr-te boolean
         - exponential-backoff-retry boolean
         - forwarding-policies
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - forwarding-policy named-item-64
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - binding-label number
               - egress-statistics
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
               - ingress-statistics
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
               - metric number
               - next-hop-group number
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - backup-next-hop
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                     - pushed-labels number
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - label number
```


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configure router mpls forwarding-policies forwarding-policy next-hop-group primary-next-hop

```
                - primary-next-hop
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                   - pushed-labels number
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - label number
                - resolution-type keyword
             - preference number
             - revert-timer number
             - tunnel-table-pref number
          - reserved-label-block reference
       - frr-object boolean
       - hold-timer number
       - interface reference
          - admin-group reference
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - label-map number
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - pop
             - swap
                - apply-groups reference
                - apply-groups-exclude reference
                - next-hop ipv4-unicast-address
                - out-label (number | keyword)
          - srlg-group reference
          - te-metric number
       - least-fill-min-thd number
       - least-fill-reoptim-thd number
       - logger-event-bundling boolean
       - lsp named-item-64
          - adaptive boolean
          - admin-state keyword
          - admin-tag reference
          - adspec boolean
          - apply-groups reference
          - apply-groups-exclude reference
          - bfd
             - bfd-liveness boolean
             - bfd-template reference
             - failure-action keyword
             - lsp-ping-interval (number | keyword)
             - wait-for-up-timer number
          - bgp-shortcut boolean
          - bgp-transport-tunnel boolean
          - binding-sid number
          - class-type number
          - entropy-label keyword
          - exclude-admin-group reference
          - exclude-node (ipv4-address-no-zone | ipv6-address-no-zone)
          - fallback-path-computation-method keyword
          - fast-reroute
             - frr-method keyword
             - hop-limit number
             - node-protect boolean
             - propagate-admin-group boolean
          - from (ipv4-address-no-zone | ipv6-address-no-zone)
          - hop-limit number
          - igp-shortcut
```


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```
            - admin-state keyword
            - allow-sr-over-srte boolean
            - lfa-type keyword
            - relative-metric number
         - include-admin-group reference
         - label-stack-reduction boolean
         - ldp-over-rsvp boolean
         - least-fill boolean
         - load-balancing-weight number
         - local-sr-protection keyword
         - main-ct-retry-limit number
         - max-sr-labels
            - additional-frr-labels number
            - label-stack-size number
         - metric number
         - metric-type keyword
         - override-tunnel-elc boolean
         - path-computation-method keyword
         - path-profile number
            - apply-groups reference
            - apply-groups-exclude reference
            - path-group number
         - pce-associations
            - diversity reference
            - policy reference
         - pce-control boolean
         - pce-report keyword
         - primary reference
            - adaptive boolean
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - backup-class-type number
            - bandwidth number
            - bfd
               - bfd-liveness boolean
               - bfd-template reference
               - lsp-ping-interval (number | keyword)
               - wait-for-up-timer number
            - class-type number
            - delay-metric-limit number
            - exclude-admin-group
               - group reference
            - hop-limit number
            - include-admin-group
               - group reference
            - priority
               - hold-priority number
               - setup-priority number
            - record boolean
            - record-label boolean
         - propagate-admin-group boolean
         - retry-limit number
         - retry-timer number
         - revert-timer number
         - rsvp-resv-style keyword
         - secondary reference
            - adaptive boolean
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - bandwidth number
            - bfd
               - bfd-liveness boolean
```


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configure router mpls lsp secondary bfd bfd-template

```
                  - bfd-template reference
                  - lsp-ping-interval (number | keyword)
                  - wait-for-up-timer number
               - class-type number
               - delay-metric-limit number
               - exclude-admin-group
                  - group reference
               - hop-limit number
               - include-admin-group
                  - group reference
               - path-preference number
               - priority
                  - hold-priority number
                  - setup-priority number
               - record boolean
               - record-label boolean
               - srlg boolean
               - standby boolean
            - to (ipv4-address-no-zone | ipv6-address-no-zone)
            - type keyword
            - vprn-auto-bind boolean
         - lsp-bsid-block reference
         - lsp-history
            - admin-state keyword
         - lsp-init-retry-timeout number
         - lsp-template named-item
            - adaptive boolean
            - admin-state keyword
            - admin-tag reference
            - adspec boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - backup-class-type number
            - bandwidth number
            - bfd
               - bfd-liveness boolean
               - bfd-template reference
               - failure-action keyword
               - lsp-ping-interval (number | keyword)
            - bgp-shortcut boolean
            - bgp-transport-tunnel boolean
            - binding-sid boolean
            - class-type number
            - default-path reference
            - delay-metric-limit number
            - entropy-label keyword
            - exclude-admin-group reference
            - fallback-path-computation-method keyword
            - family keyword
            - fast-reroute
               - frr-method keyword
               - hop-limit number
               - node-protect boolean
               - propagate-admin-group boolean
            - from (ipv4-address-no-zone | ipv6-address-no-zone)
            - hop-limit number
            - igp-shortcut
               - admin-state keyword
               - allow-sr-over-srte boolean
               - lfa-type keyword
               - relative-metric number
            - include-admin-group reference
            - label-stack-reduction boolean
            - ldp-over-rsvp boolean
```


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```
            - least-fill boolean
            - load-balancing-weight number
            - local-sr-protection keyword
            - main-ct-retry-limit number
            - max-sr-labels
               - additional-frr-labels number
               - label-stack-size number
            - metric number
            - metric-type keyword
            - override-tunnel-elc boolean
            - path-computation-method keyword
            - path-profile number
               - apply-groups reference
               - apply-groups-exclude reference
               - path-group number
            - pce-associations
               - diversity reference
               - policy reference
            - pce-control boolean
            - pce-report keyword
            - priority
               - hold-priority number
               - setup-priority number
            - propagate-admin-group boolean
            - record boolean
            - record-label boolean
            - retry-limit number
            - retry-timer number
            - template-id (number | keyword)
            - type keyword
            - vprn-auto-bind boolean
         - max-bypass-associations number
         - max-bypass-plr-associations number
         - mbb-prefer-current-hops boolean
         - p2p-active-path-fast-retry number
         - path named-item-64
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - hop number
               - apply-groups reference
               - apply-groups-exclude reference
               - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - sid-label number
               - type keyword
         - pce-init-lsp
            - apply-groups reference
            - apply-groups-exclude reference
            - sr-te
               - admin-state keyword
         - pce-report
            - rsvp-te boolean
            - sr-te boolean
         - resignal-on-igp-event boolean
         - resignal-on-igp-overload boolean
         - resignal-timer number
         - retry-on-igp-overload boolean
         - secondary-fast-retry-timer number
         - shortcut-local-ttl-propagate boolean
         - shortcut-transit-ttl-propagate boolean
         - sr-te-resignal
            - resignal-on-igp-event boolean
            - resignal-on-igp-overload boolean
            - resignal-timer number
```


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```
        - srlg-database
            - router-id ipv4-address
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - interface ipv4-address srlg-group reference
            - srlg-frr keyword
            - static-lsp named-item-64
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - metric number
                - push
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - next-hop ipv4-unicast-address
                    - out-label (number | keyword)
                - to ipv4-unicast-address
            - static-lsp-fast-retry number
            - strict-ero-nhop-direct-resolution boolean
            - tunnel-table-pref
                - rsvp-te number
                - sr-te number
            - user-srlg-db boolean
        - mpls-labels
            - apply-groups reference
            - apply-groups-exclude reference
            - bgp-labels-hold-timer number
            - reserved-label-block named-item-64
                - apply-groups reference
                - apply-groups-exclude reference
                - end-label number
                - start-label number
            - sr-labels
                - end number
                - start number
            - static-label-range number
        - mss-adjust
            - apply-groups reference
            - apply-groups-exclude reference
            - nat-group number
            - segment-size number
        - nat
            - apply-groups reference
            - apply-groups-exclude reference
            - inside
                - large-scale
                    - nat-policy reference
                    - nat44
                        - destination-prefix ipv4-unicast-prefix
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - nat-policy reference
                        - deterministic
                            - address-map ipv4-address to ipv4-address nat-policy reference
                                - admin-state keyword
                                - apply-groups reference
                                - apply-groups-exclude reference
                                - outside-range ipv4-address
                            - prefix-map ipv4-unicast-prefix nat-policy reference
                                - admin-state keyword
                                - apply-groups reference
                                - apply-groups-exclude reference
                                - map ipv4-address to ipv4-address
```


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```
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - first-outside-address ipv4-address
               - max-subscriber-limit number
      - outside
         - filters
            - downstream
               - ipv4 reference
            - upstream
               - ipv4 reference
         - mtu number
         - pool named-item
            - address-range ipv4-unicast-address end ipv4-unicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - drain boolean
            - admin-state keyword
            - applications
               - agnostic boolean
               - use-interface-ip boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - icmp-echo-reply boolean
            - large-scale
               - subscriber-limit number
               - use-interface-ip
                  - cpm-reserved-ports number
                  - use-well-known-ports boolean
            - mode keyword
            - nat-group reference
            - port-forwarding
               - dynamic-block-reservation boolean
               - range-end number
            - port-reservation
               - port-blocks number
               - ports number
            - type keyword
            - watermarks
               - high number
               - low number
   - network-domains
      - network-domain named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
   - origin-validation
      - apply-groups reference
      - apply-groups-exclude reference
      - rpki-session (ipv4-address-no-zone | ipv6-address-no-zone)
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - connect-retry number
         - description description
         - local-address (ipv4-address-no-zone | ipv6-address-no-zone)
         - port number
         - refresh-time
            - hold-time number
            - value number
         - stale-time number
      - static-entry (ipv4-prefix | ipv6-prefix) upto number origin-as number
         - apply-groups reference
```


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configure router origin-validation static-entry apply-groups-exclude

```
            - apply-groups-exclude reference
            - valid boolean
      - ospf number
         - admin-state keyword
         - advertise-router-capability keyword
         - advertise-tunnel-link boolean
         - apply-groups reference
         - apply-groups-exclude reference
         - area ipv4-address
            - advertise-router-capability boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - area-range ipv4-unicast-prefix
               - advertise boolean
               - apply-groups reference
               - apply-groups-exclude reference
            - blackhole-aggregate boolean
            - database-export-exclude boolean
            - export-policy reference
            - import-policy reference
            - interface interface-name
               - adjacency-set reference
               - adjacency-sid
                  - label number
               - admin-state keyword
               - advertise-router-capability boolean
               - advertise-subnet boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-key encrypted-leaf
               - authentication-keychain reference
               - authentication-type keyword
               - bfd-liveness
                  - remain-down-on-failure boolean
                  - strict boolean
                  - strict-mode-holddown number
               - conditional-advertise-prefix reference
               - dead-interval number
               - delay-normalization
                  - delay-tolerance-interval number
                  - minimum-delay number
               - flex-algo number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - node-sid
                     - index number
                     - label number
               - hello-interval number
               - interface-type keyword
               - load-balancing-weight number
               - loopfree-alternate
                  - exclude boolean
                  - policy-map
                     - route-nh-template reference
               - lsa-filter-out keyword
               - message-digest-key number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - md5 encrypted-leaf
               - metric number
               - mtu number
               - neighbor ipv4-unicast-address
               - node-sid
                  - clear-n-flag boolean
```


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configure router ospf area interface node-sid index

```
                  - index number
                  - label number
               - passive boolean
               - poll-interval number
               - priority number
               - retransmit-interval number
               - rib-priority keyword
               - sid-protection boolean
               - transit-delay number
            - loopfree-alternate-exclude boolean
            - nssa
               - area-range ipv4-unicast-prefix
                  - advertise boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
               - originate-default-route
                  - adjacency-check boolean
                  - type-nssa boolean
               - redistribute-external boolean
               - summaries boolean
            - stub
               - default-metric number
               - summaries boolean
            - virtual-link ipv4-address transit-area reference
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-key encrypted-leaf
               - authentication-keychain reference
               - authentication-type keyword
               - dead-interval number
               - hello-interval number
               - message-digest-key number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - md5 encrypted-leaf
               - retransmit-interval number
               - transit-delay number
         - asbr
            - trace-path (number | keyword)
         - compatible-rfc1583 boolean
         - database-export
            - bgp-ls-identifier
               - value number
            - igp-identifier number
            - reachable-ls-only boolean
         - entropy-label
            - override-tunnel-elc boolean
         - export-limit
            - log-percent number
            - number number
         - export-policy reference
         - external-db-overflow
            - interval number
            - limit number
         - external-preference number
         - flexible-algorithms
            - admin-state keyword
            - advertise-admin-group keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - flex-algo number
               - advertise reference
               - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - loopfree-alternate
            - micro-loop-avoidance
            - participate boolean
      - graceful-restart
         - helper-mode boolean
         - helper-resync-timeout number
         - protocol
            - lls-restart-signaling boolean
            - standard boolean
         - strict-lsa-checking boolean
      - igp-shortcut
         - admin-state keyword
         - allow-sr-over-srte boolean
         - apply-groups reference
         - apply-groups-exclude reference
         - tunnel-next-hop
            - family keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - resolution keyword
               - resolution-filter
                  - rsvp boolean
                  - sr-te boolean
      - import-policy reference
      - ldp-over-rsvp boolean
      - ldp-sync boolean
      - loopfree-alternate
         - augment-route-table boolean
         - exclude
            - prefix-policy reference
         - multi-homed-prefix
            - preference keyword
         - remote-lfa
            - max-pq-cost number
            - node-protect
               - max-pq-nodes number
         - ti-lfa
            - max-sr-frr-labels number
            - neighbor-path-expand boolean
            - node-protect
      - multi-instance boolean
      - multicast-import boolean
      - multicast-import-policy reference
      - overload boolean
      - overload-include-ext-1 boolean
      - overload-include-ext-2 boolean
      - overload-include-stub boolean
      - overload-on-boot
         - timeout number
      - preference number
      - reference-bandwidth number
      - rib-priority
         - high
            - prefix-list reference
      - router-id router-id
      - rtr-adv-lsa-limit
         - log-only boolean
         - max-lsa-count number
         - overload-timeout (number | keyword)
         - warning-threshold number
      - segment-routing
         - adj-sid-hold (number | keyword)
         - adjacency-set number
```


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```
            - advertise boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - parallel boolean
            - sid
               - label number
         - adjacency-sid
            - allocate-dual-sids boolean
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - backup-node-sid
            - index number
            - ip-prefix ipv4-unicast-prefix
            - label number
         - entropy-label boolean
         - export-tunnel-table keyword
         - mapping-server
            - admin-state keyword
            - node-sid-map number
               - apply-groups reference
               - apply-groups-exclude reference
               - ip-prefix ipv4-prefix
               - range number
               - scope
                  - area reference
                  - as
         - maximum-sid-depth
            - override-bmi number
            - override-erld number
         - micro-loop-avoidance
            - fib-delay number
         - prefix-sid-range
            - global
            - max-index number
            - start-label number
         - srlb reference
         - tunnel-mtu number
         - tunnel-table-pref number
      - timers
         - incremental-spf-wait number
         - lsa-accumulate number
         - lsa-arrival number
         - lsa-generate
            - lsa-initial-wait number
            - lsa-second-wait number
            - max-lsa-wait number
         - redistribute-delay number
         - spf-wait
            - spf-initial-wait number
            - spf-max-wait number
            - spf-second-wait number
      - traffic-engineering boolean
      - traffic-engineering-options
         - advertise-delay boolean
         - sr-te keyword
      - unicast-import boolean
   - ospf3 number
      - admin-state keyword
      - advertise-router-capability keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - area ipv4-address
         - advertise-router-capability boolean
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - area-range (ipv4-prefix | ipv6-prefix)
               - advertise boolean
               - apply-groups reference
               - apply-groups-exclude reference
            - blackhole-aggregate boolean
            - database-export-exclude boolean
            - export-policy reference
            - extended-lsa keyword
            - import-policy reference
            - interface interface-name
               - admin-state keyword
               - advertise-router-capability boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication
                  - inbound reference
                  - outbound reference
               - bfd-liveness
                  - remain-down-on-failure boolean
                  - strict boolean
                  - strict-mode-holddown number
               - conditional-advertise-prefix reference
               - dead-interval number
               - hello-interval number
               - interface-type keyword
               - load-balancing-weight number
               - loopfree-alternate
                  - exclude boolean
                  - policy-map
                     - route-nh-template reference
               - lsa-filter-out keyword
               - metric number
               - mtu number
               - neighbor (ipv4-address-no-zone | ipv6-address-no-zone)
               - node-sid
                  - clear-n-flag boolean
                  - index number
                  - label number
               - passive boolean
               - poll-interval number
               - priority number
               - retransmit-interval number
               - rib-priority keyword
               - sid-protection boolean
               - transit-delay number
            - key-rollover-interval number
            - loopfree-alternate-exclude boolean
            - nssa
               - area-range (ipv4-prefix | ipv6-prefix)
                  - advertise boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
               - originate-default-route
                  - adjacency-check boolean
                  - type-nssa boolean
               - redistribute-external boolean
               - summaries boolean
            - stub
               - default-metric number
               - summaries boolean
            - virtual-link ipv4-address transit-area reference
               - admin-state keyword
```


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configure router ospf3 area virtual-link apply-groups

```
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication
               - inbound reference
               - outbound reference
            - dead-interval number
            - hello-interval number
            - retransmit-interval number
            - transit-delay number
      - asbr
      - database-export
         - bgp-ls-identifier
            - value number
         - igp-identifier number
         - reachable-ls-only boolean
      - export-limit
         - log-percent number
         - number number
      - export-policy reference
      - extended-lsa keyword
      - external-db-overflow
         - interval number
         - limit number
      - external-preference number
      - graceful-restart
         - helper-mode boolean
         - strict-lsa-checking boolean
      - igp-shortcut
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - tunnel-next-hop
            - family keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - resolution keyword
               - resolution-filter
                  - rsvp boolean
                  - sr-te boolean
      - import-policy reference
      - ldp-sync boolean
      - loopfree-alternate
         - exclude
            - prefix-policy reference
         - remote-lfa
            - max-pq-cost number
            - node-protect
               - max-pq-nodes number
         - ti-lfa
            - max-sr-frr-labels number
            - node-protect
      - multicast-import boolean
      - overload boolean
      - overload-include-ext-1 boolean
      - overload-include-ext-2 boolean
      - overload-include-stub boolean
      - overload-on-boot
         - timeout number
      - preference number
      - reference-bandwidth number
      - rib-priority
         - high
            - prefix-list reference
      - router-id router-id
```


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```
        - rtr-adv-lsa-limit
            - log-only boolean
            - max-lsa-count number
            - overload-timeout (number | keyword)
            - warning-threshold number
        - segment-routing
            - adj-sid-hold (number | keyword)
            - adjacency-sid
                - allocate-dual-sids boolean
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - prefix-sid-range
                - global
                - max-index number
                - start-label number
            - tunnel-mtu number
            - tunnel-table-pref number
        - timers
            - incremental-spf-wait number
            - lsa-accumulate number
            - lsa-arrival number
            - lsa-generate
                - lsa-initial-wait number
                - lsa-second-wait number
                - max-lsa-wait number
            - redistribute-delay number
            - spf-wait
                - spf-initial-wait number
                - spf-max-wait number
                - spf-second-wait number
        - unicast-import boolean
    - pcep
        - apply-groups reference
        - apply-groups-exclude reference
        - pcc
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - capability-advertisement
                - multi-path boolean
                - sr-policy boolean
            - dead-timer number
            - keepalive number
            - local-address ipv4-unicast-address
            - local-address-ipv6 ipv6-unicast-address
            - max-srte-pce-init-lsps number
            - pce-associations
                - diversity named-item
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - association-id number
                    - association-source (ipv4-address-no-zone | ipv6-address-no-zone)
                    - disjointness-reference boolean
                    - disjointness-type keyword
                    - diversity-type keyword
                - policy named-item
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - association-id number
                    - association-source (ipv4-address-no-zone | ipv6-address-no-zone)
            - peer (ipv4-address-no-zone | ipv6-address-no-zone)
                - admin-state keyword
                - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - authentication-keychain reference
            - preference number
            - route-preference keyword
            - tls-client-profile reference
            - tls-wait-timer number
         - redelegation-timer number
         - report-path-constraints boolean
         - state-timer
            - timer number
            - timer-action keyword
         - unknown-message-rate number
      - pce
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - authentication-keychain reference
         - capability-advertisement
            - multi-path boolean
            - sr-policy boolean
         - dead-timer number
         - keepalive number
         - local-address ipv4-unicast-address
         - local-address-ipv6 ipv6-unicast-address
         - tls-server-profile reference
         - tls-wait-timer number
         - unknown-message-rate number
   - pim
      - admin-state keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - apply-to keyword
      - import
         - join-policy reference
         - register-policy reference
      - interface interface-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - assert-period number
         - bfd-liveness
            - ipv4 boolean
            - ipv6 boolean
         - bsm-check-rtr-alert boolean
         - hello-interval number
         - hello-multiplier number
         - improved-assert boolean
         - instant-prune-echo boolean
         - ipv4
            - apply-groups reference
            - apply-groups-exclude reference
            - monitor-oper-group
               - name reference
               - operation keyword
               - priority-delta number
            - multicast boolean
         - ipv6
            - apply-groups reference
            - apply-groups-exclude reference
            - monitor-oper-group
               - name reference
               - operation keyword
               - priority-delta number
            - multicast boolean
```


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```
            - max-groups number
            - multicast-senders keyword
            - priority number
            - sticky-dr
               - priority number
            - three-way-hello boolean
            - tracking-support boolean
         - ipv4
            - admin-state keyword
            - rpf-table keyword
            - source-address
               - register-message ipv4-unicast-address
            - ssm-assert-compatible-mode boolean
            - ssm-default-range boolean
         - ipv6
            - admin-state keyword
            - rpf-table keyword
            - source-address
               - register-message ipv6-unicast-address
            - ssm-default-range boolean
         - mdt-spt boolean
         - non-dr-attract-traffic boolean
         - pim-ssm-scaling boolean
         - rp
            - bootstrap
               - export reference
               - import reference
            - ipv4
               - anycast ipv4-unicast-address rp-set-peer ipv4-unicast-address
               - auto-rp-discovery boolean
               - bsr-candidate
                  - address ipv4-unicast-address
                  - admin-state keyword
                  - hash-mask-len number
                  - priority number
               - candidate boolean
               - mapping-agent boolean
               - rp-candidate
                  - address ipv4-unicast-address
                  - admin-state keyword
                  - group-range ipv4-multicast-prefix
                  - holdtime number
                  - priority number
               - static
                  - address ipv4-unicast-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - group-prefix ipv4-multicast-prefix
                     - override boolean
            - ipv6
               - anycast ipv6-unicast-address rp-set-peer ipv6-unicast-address
               - bsr-candidate
                  - address ipv6-unicast-address
                  - admin-state keyword
                  - hash-mask-len number
                  - priority number
               - embedded-rp
                  - admin-state keyword
                  - group-range ipv6-multicast-prefix
               - rp-candidate
                  - address ipv6-unicast-address
                  - admin-state keyword
                  - group-range ipv6-multicast-prefix
                  - holdtime number
```


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configure router pim rp ipv6 rp-candidate priority

```
                - priority number
             - static
                - address ipv6-unicast-address
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - group-prefix ipv6-multicast-prefix
                   - override boolean
       - rpfv
          - core boolean
          - mvpn boolean
       - spt-switchover (ipv4-prefix | ipv6-prefix)
          - apply-groups reference
          - apply-groups-exclude reference
          - threshold (number | keyword)
       - ssm-groups
          - group-range (ipv4-prefix | ipv6-prefix)
    - radius
       - apply-groups reference
       - apply-groups-exclude reference
       - server named-item
          - accept-coa boolean
          - acct-port number
          - address (ipv4-address-no-zone | ipv6-address-no-zone)
          - apply-groups reference
          - apply-groups-exclude reference
          - auth-port number
          - description description
          - insert-message-authenticator boolean
          - pending-requests-limit number
          - require-message-authenticator boolean
          - secret encrypted-leaf
    - rip
       - admin-state keyword
       - apply-groups reference
       - apply-groups-exclude reference
       - authentication-key encrypted-leaf
       - authentication-type keyword
       - bfd-liveness boolean
       - check-zero boolean
       - description description
       - export-limit
          - log-percent number
          - number number
       - export-policy reference
       - group named-item
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - authentication-key encrypted-leaf
          - authentication-type keyword
          - bfd-liveness boolean
          - check-zero boolean
          - description description
          - export-policy reference
          - import-policy reference
          - message-size number
          - metric-in number
          - metric-out number
          - neighbor interface-name
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - authentication-key encrypted-leaf
             - authentication-type keyword
```


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configure router rip group neighbor bfd-liveness

```
            - bfd-liveness boolean
            - check-zero boolean
            - description description
            - export-policy reference
            - import-policy reference
            - message-size number
            - metric-in number
            - metric-out number
            - preference number
            - receive keyword
            - send keyword
            - split-horizon boolean
            - timers
               - flush number
               - timeout number
               - update number
            - unicast-address ipv4-unicast-address
         - preference number
         - receive keyword
         - send keyword
         - split-horizon boolean
         - timers
            - flush number
            - timeout number
            - update number
      - import-policy reference
      - message-size number
      - metric-in number
      - metric-out number
      - preference number
      - receive keyword
      - send keyword
      - split-horizon boolean
      - timers
         - flush number
         - timeout number
         - update number
   - ripng
      - admin-state keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - bfd-liveness boolean
      - check-zero boolean
      - description description
      - export-limit
         - log-percent number
         - number number
      - export-policy reference
      - group named-item
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - bfd-liveness boolean
         - check-zero boolean
         - description description
         - export-policy reference
         - import-policy reference
         - message-size number
         - metric-in number
         - metric-out number
         - neighbor interface-name
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
```


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```
            - bfd-liveness boolean
            - check-zero boolean
            - description description
            - export-policy reference
            - import-policy reference
            - message-size number
            - metric-in number
            - metric-out number
            - preference number
            - receive keyword
            - send keyword
            - split-horizon boolean
            - timers
               - flush number
               - timeout number
               - update number
            - unicast-address ipv6-unicast-address
         - preference number
         - receive keyword
         - send keyword
         - split-horizon boolean
         - timers
            - flush number
            - timeout number
            - update number
      - import-policy reference
      - message-size number
      - metric-in number
      - metric-out number
      - preference number
      - receive keyword
      - send keyword
      - split-horizon boolean
      - timers
         - flush number
         - timeout number
         - update number
   - router-id router-id
   - rsvp
      - admin-state keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - authentication-over-bypass boolean
      - diffserv-te
         - admission-control-model keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - class-type-bw
            - ct0 number
            - ct1 number
            - ct2 number
            - ct3 number
            - ct4 number
            - ct5 number
            - ct6 number
            - ct7 number
         - fc keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - class-type number
         - te-class number
            - apply-groups reference
            - apply-groups-exclude reference
            - class-type number
```


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configure router rsvp diffserv-te te-class priority

```
            - priority number
         - entropy-label-capability boolean
         - graceful-restart
            - max-recovery number
            - max-restart number
         - graceful-shutdown boolean
         - implicit-null-label boolean
         - include-node-id-in-rro boolean
         - interface reference
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication-key encrypted-leaf
            - authentication-keychain reference
            - bfd-liveness boolean
            - class-type-bw
               - ct0 number
               - ct1 number
               - ct2 number
               - ct3 number
               - ct4 number
               - ct5 number
               - ct6 number
               - ct7 number
            - graceful-restart-helper-mode boolean
            - graceful-shutdown boolean
            - hello-interval number
            - implicit-null-label boolean
            - refresh-reduction
               - reliable-delivery boolean
            - subscription number
            - te-down-threshold
               - apply-groups reference
               - apply-groups-exclude reference
               - value number
            - te-up-threshold
               - apply-groups reference
               - apply-groups-exclude reference
               - value number
         - keep-multiplier number
         - msg-pacing
            - max-burst number
            - period number
         - p2p-merge-point-abort-timer number
         - preemption-timer number
         - rapid-retransmit-time number
         - rapid-retry-limit number
         - refresh-reduction-over-bypass boolean
         - refresh-time number
         - te-down-threshold number
         - te-threshold-update
            - on-cac-failure boolean
            - update-timer number
         - te-up-threshold number
      - segment-routing
         - apply-groups reference
         - apply-groups-exclude reference
         - maintenance-policy named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - bfd-liveness boolean
            - bfd-template reference
            - hold-down-timer number
```


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```
            - mode keyword
            - return-path-label number
            - revert-timer number
            - threshold number
         - sr-mpls
            - apply-groups reference
            - apply-groups-exclude reference
            - prefix-sids reference
               - apply-groups reference
               - apply-groups-exclude reference
               - flex-algo number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ipv4-sid
                     - index number
                     - label number
                  - ipv6-sid
                     - index number
                     - label number
               - ipv4-sid
                  - index number
                  - label number
               - ipv6-sid
                  - index number
                  - label number
               - node-sid boolean
         - sr-policies
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - reserved-label-block reference
            - static-policy named-item-64
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - binding-sid number
               - color number
               - distinguisher number
               - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
               - head-end (ipv4-address-no-zone | ipv6-address-no-zone | keyword)
               - maintenance-policy reference
               - pce-report boolean
               - preference number
               - segment-list number
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - segment number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - mpls-label number
                  - weight number
      - sfm-overload
         - holdoff-time number
      - sgt-qos
         - dot1p
            - application keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - dot1p (keyword | number)
         - dscp
            - application keyword
               - apply-groups reference
               - apply-groups-exclude reference
```


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configure router sgt-qos dscp application dscp

```
            - dscp (keyword | number)
         - dscp-map keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - fc keyword
   - static-routes
      - apply-groups reference
      - apply-groups-exclude reference
      - hold-down
         - initial number
         - max-value number
         - multiplier number
      - route (ipv4-prefix | ipv6-prefix) route-type keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - blackhole
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - community community
            - description description-allow-all-white-spaces
            - dynamic-bgp boolean
            - generate-icmp boolean
            - metric number
            - preference number
            - prefix-list
               - flag keyword
               - name reference
            - tag number
         - community community
         - dhcp-next-hop interface-name
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - community community
            - description description-allow-all-white-spaces
            - metric number
            - preference number
            - tag number
         - indirect (ipv4-address-no-zone | ipv6-address-no-zone)
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - community community
            - cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
               - apply-groups reference
               - apply-groups-exclude reference
               - drop-count number
               - interval number
               - log boolean
               - padding-size number
            - description description-allow-all-white-spaces
            - metric number
            - preference number
            - prefix-list
               - flag keyword
               - name reference
            - tag number
            - tunnel-next-hop
               - disallow-igp boolean
               - flex-algo number
               - resolution keyword
               - resolution-filter
                  - ldp boolean
```


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configure router static-routes route indirect tunnel-next-hop resolution-filter rsvp-te

```
                    - rsvp-te
                       - lsp named-item-64
                    - sr-isis boolean
                    - sr-ospf boolean
                    - sr-ospf3 boolean
                    - sr-te
                       - lsp named-item-64
          - interface interface-name
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - community community
             - cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
                - apply-groups reference
                - apply-groups-exclude reference
                - drop-count number
                - interval number
                - log boolean
                - padding-size number
             - description description-allow-all-white-spaces
             - load-balancing-weight number
             - metric number
             - preference number
             - prefix-list
                - flag keyword
                - name reference
             - tag number
          - ipsec-tunnel named-item
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - community community
             - description description-allow-all-white-spaces
             - metric number
             - preference number
             - tag number
          - leak-destination
             - router-instance reference
          - next-hop (ipv4-address-with-zone | ipv6-address-with-zone)
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - bfd-liveness boolean
             - community community
             - cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
                - apply-groups reference
                - apply-groups-exclude reference
                - drop-count number
                - interval number
                - log boolean
                - padding-size number
             - description description-allow-all-white-spaces
             - ldp-sync boolean
             - load-balancing-weight number
             - metric number
             - preference number
             - prefix-list
                - flag keyword
                - name reference
             - tag number
             - validate-next-hop boolean
          - tag number
       - triggered-policy boolean
       - ttl-propagate
```


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configure router ttl-propagate apply-groups

```
        - apply-groups reference
        - apply-groups-exclude reference
        - label-route-local keyword
        - label-route-transit keyword
        - lsr-label-route keyword
        - sr-mpls-local keyword
        - sr-mpls-transit keyword
        - vprn-local keyword
        - vprn-transit keyword
    - tunnel-interface
        - ldp-p2mp-leaf number sender-address ipv4-unicast-address
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
        - ldp-p2mp-root number sender-address ipv4-unicast-address
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
    - twamp-light
        - apply-groups reference
        - apply-groups-exclude reference
        - reflector
            - admin-state keyword
            - allow-ipv6-udp-checksum-zero boolean
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - prefix (ipv4-prefix | ipv6-prefix)
                - apply-groups reference
                - apply-groups-exclude reference
                - description description
            - type keyword
            - udp-port number
    - weighted-ecmp keyword
```


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4.24.1 router command descriptions

router [router-name] *named-item-64*

Synopsis	Enter the **router** list instance
Context	**configure** router *named-item-64*
Tree	router
Description	Commands in this context configure a router instance that represents a virtual router in the system. At least two instances always exist in the system. The Base or transport router and the management router are created when the system is initialized and cannot be deleted.
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-name**] *named-item-64*

Synopsis	Administrative router name
Context	**configure** router *named-item-64*
Tree	router
String length	1 to 64
MD-CLI default	Base
String format	'string-not-all-spaces' must contain at least one non-space character 'router-instance' must be 1 to 32 characters
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregates

Synopsis	Enter the **aggregates** context
Context	**configure** router *named-item-64* aggregates
Tree	aggregates
Introduced	25.3.R2

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Platforms	SAR Gen 2

aggregate [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **aggregate** list instance
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)*
Tree	aggregate
Description	Commands in this context add aggregate routes to the routing table when there are one or more component routes. A component route is any route installed in the forwarding table that is a more-specific match of the aggregate. The use of aggregate routes can lead to smaller routing table sizes by reducing the number of routes that need to be advertised to neighbor routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP address prefix of the aggregate route
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)*
Tree	aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregator

Synopsis	Enter the **aggregator** context
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* aggregator
Tree	aggregator
Description	Commands in this context configure the BGP AGGREGATOR path attribute for the aggregate route.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv4-unicast-address*

Synopsis	Aggregator IP address
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* aggregator address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Aggregator AS number
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* aggregator as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

as-set *boolean*

Synopsis	Use AS_SET path segment type for the aggregate route
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* as-set *boolean*
Tree	as-set
Description	When configured to **true**, the AS_PATH attribute of the aggregate contains an AS_SET containing all AS numbers from the contributing routes. This can increase the amount of churn due to best-path changes. When configured to **false**, the AS_PATH attribute contains no AS_SET and will be originated by the ESR.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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blackhole

Synopsis	Enable the **blackhole** context
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* blackhole
Tree	blackhole
Notes	The following elements are part of a choice: **blackhole** or **indirect**.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-icmp *boolean*

Synopsis	Send ICMP unreachable messages for aggregate routes
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* blackhole generate-icmp *boolean*
Tree	generate-icmp
Description	When configured to **true**, ICMP unreachable messages are sent when packets match an aggregate route in the FIB with a black-hole next-hop. When configured to **false**, ICMP unreachable messages are not generated.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community name that is added to the aggregate route
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* community *community*
Tree	community
Description	This command associates a BGP community with the aggregate route. The community name can be matched in route policies and is automatically added to BGP routes exported from the aggregate route.
String length	1 to 72
Max. instances	12
Notes	This element is ordered by the user.
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-component-communities *boolean*

Synopsis	Advertise aggregate with aggregate route community set
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* discard-component-communities *boolean*
Tree	discard-component-communities
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Address of the indirect next hop
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	indirect
Description	This command programs aggregate routes into the forwarding table with an indirect next hop. If a packet matches the aggregate route but not a contributing route, it is forwarded toward the indirect next hop rather than being discarded.
Notes	The following elements are part of a choice: **blackhole** or **indirect**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Local preference used when aggregate route is exported
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* local-preference *number*
Tree	local-preference
Description	This command configures the local preference value to use when the aggregate route is exported rather than using any of the local preference values assigned for any of the contributing routes.
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	Policy name for the aggregated route
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* policy *reference*
Tree	policy
Description	This command associates an aggregate route with a policy reference. The aggregated route is activated only when there is at least one eligible active route in the sub-trees below it that is accepted by the policy evaluation. There is no evaluation into any sub-tree that starts with another active aggregate route. Eligible routes exclude host routes and LDP shortcut routes. If an aggregate route has no policy, or the reference is to an empty policy, this configuration is treated as equivalent to a policy with one rule that accepts all routes.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

summary-only *boolean*

Synopsis	Advertise the aggregate route only
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* summary-only *boolean*

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Tree	summary-only
Description	When configured to **true**, the router suppresses the advertisement of more specific component routes for the aggregate. When configured to **false**, the router advertises both the aggregate route and its contributing routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group *number*

Synopsis	Tunnel group from which to associate the MC IPSec state
Context	**configure** router *named-item-64* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* tunnel-group *number*
Tree	tunnel-group
Description	This command adds the MC-IPsec state of the specific tunnel-group to the aggregate route.
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-bgp-to-igp-export *boolean*

Synopsis	Enable the distribution of BGP routes into the IGP
Context	**configure** router *named-item-64* allow-bgp-to-igp-export *boolean*
Tree	allow-bgp-to-igp-export
Description	When configured to **true**, the router can export base BGP RTM routes into the IGP routing instance within the base router. This command applies to already exported BGP prefixes and to newly received BGP prefixes.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-icmp-redirect *boolean*

Synopsis	Allow ICMP redirects on the management interface

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Context	**configure** router *named-item-64* allow-icmp-redirect *boolean*
Tree	allow-icmp-redirect
Description	When configured to **true**, ICMP redirect messages can be received on the management interface. When configured to **false**, all received ICMP redirect messages are dropped. This command cannot be configured on a non-management interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-icmp6-redirect *boolean*

Synopsis	Allow IPv6 ICMP redirects on the management interface
Context	**configure** router *named-item-64* allow-icmp6-redirect *boolean*
Tree	allow-icmp6-redirect
Description	When configured to **true**, IPv6 ICMP redirect messages can be received on the management interface. When configured to **false**, all received IPv6 ICMP redirect messages are dropped. This command cannot be configured on a non-management interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

autonomous-system *number*

Synopsis	AS number advertised to peers for this router
Context	**configure** router *named-item-64* autonomous-system *number*
Tree	autonomous-system
Description	This command configures the autonomous system (AS) number for the router. This value must be set before BGP can be activated. If the AS number is changed on a router with an active BGP instance, the new AS number is not used until the BGP instance is restarted.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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bgp

Synopsis	Enable the **bgp** context
Context	**configure** router *named-item-64* bgp
Tree	bgp
Introduced	25.3.R2
Platforms	SAR Gen 2

add-paths

Synopsis	Enable the **add-paths** context
Context	**configure** router *named-item-64* bgp add-paths
Tree	add-paths
Description	Commands in this context configure add-paths support for the specified address families of the BGP instance. The BGP add-paths capability allows the router to send or receive multiple paths per prefix to and from a peer.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** router *named-item-64* bgp add-paths evpn
Tree	evpn
Description	Commands in this context configure the Add-Paths capability for EVPN routes. By default, Add-Paths is not enabled for EVPN routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple EVPN paths per prefix from a peer
Context	**configure** router *named-item-64* bgp add-paths evpn receive *boolean*
Tree	receive
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum number of EVPN paths to send
Context	**configure** router *named-item-64* bgp add-paths evpn send *(number | keyword)*
Tree	send
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* bgp add-paths ipv4
Tree	ipv4
Description	Commands in this context configure add-paths support for the IPv4 unicast address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per unlabeled IPv4 prefix
Context	**configure** router *named-item-64* bgp add-paths ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple unlabeled IPv4 unicast routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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send *(number | keyword)*

Synopsis	Maximum paths per unlabeled IPv4 unicast prefix
Context	**configure** router *named-item-64* bgp add-paths ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths per unlabeled IPv4 unicast prefix that are allowed to be advertised to ADD-PATH peers. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, add-paths send capability is not enabled for unlabeled IPv4 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* bgp add-paths ipv6
Tree	ipv6
Description	Commands in this context configure add-paths support for the IPv6 unicast address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per unlabeled IPv6 prefix
Context	**configure** router *named-item-64* bgp add-paths ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple unlabeled IPv6 unicast routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per unlabeled IPv6 unicast prefix
Context	**configure** router *named-item-64* bgp add-paths ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per unlabeled IPv6 unicast prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, add-paths send capability is not enabled for unlabeled IPv6 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4

Synopsis	Enter the **label-ipv4** context
Context	**configure** router *named-item-64* bgp add-paths label-ipv4
Tree	label-ipv4
Description	Commands in this context configure add-paths support for the labeled IPv4 unicast address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv4 prefix
Context	**configure** router *named-item-64* bgp add-paths label-ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple labeled-unicast routes per IPv4 prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Paths advertised per labeled IPv4 unicast prefix
Context	**configure** router *named-item-64* bgp add-paths label-ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per labeled IPv4 unicast prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, add-paths send capability is not enabled for labeled IPv4 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6

Synopsis	Enter the **label-ipv6** context
Context	**configure** router *named-item-64* bgp add-paths label-ipv6
Tree	label-ipv6
Description	Commands in this context configure add-paths support for the labeled IPv6 unicast address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv6 prefix
Context	**configure** router *named-item-64* bgp add-paths label-ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple labeled-unicast routes per IPv6 prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Paths advertised per labeled IPv6 unicast prefix
Context	**configure** router *named-item-64* bgp add-paths label-ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per labeled IPv6 unicast prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, add-paths send capability is not enabled for labeled IPv6 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4

Synopsis	Enter the **vpn-ipv4** context
Context	**configure** router *named-item-64* bgp add-paths vpn-ipv4
Tree	vpn-ipv4
Description	Commands in this context configure add-paths support for the VPN-IPv4 address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per VPN-IPv4 prefix
Context	**configure** router *named-item-64* bgp add-paths vpn-ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple routes per VPN-IPv4 prefix to be received from a peer.

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When configured to **false**, the ADD-PATH receive capability is not enabled.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths advertised per VPN-IPv4 prefix
Context	**configure** router *named-item-64* bgp add-paths vpn-ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per VPN-IPv4 prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, add-paths send capability is not enabled for VPN-IPv4 routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6

Synopsis	Enter the **vpn-ipv6** context
Context	**configure** router *named-item-64* bgp add-paths vpn-ipv6
Tree	vpn-ipv6
Description	Commands in this context configure add-paths support for the VPN-IPv6 address family.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per VPN-IPv6 prefix
Context	**configure** router *named-item-64* bgp add-paths vpn-ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple routes per VPN-IPv6 prefix to be received from a peer.

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When configured to **false**, the ADD-PATH receive capability is not enabled.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths advertised per VPN-IPv6 prefix
Context	**configure** router *named-item-64* bgp add-paths vpn-ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per VPN-IPv6 prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, add-paths send capability is not enabled for VPN-IPv6 routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the BGP instance
Context	**configure** router *named-item-64* bgp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-external

Synopsis	Enter the **advertise-external** context
Context	**configure** router *named-item-64* bgp advertise-external
Tree	advertise-external

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Description	Commands in this context allow BGP to advertise its best external route to a destination for specified address families even when its best overall route is an internal route.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** router *named-item-64* bgp advertise-external ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** router *named-item-64* bgp advertise-external ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** router *named-item-64* bgp advertise-external label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Enable support for labeled-unicast IPv6 routes

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Context	**configure** router *named-item-64* bgp advertise-external label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-inactive *boolean*

Synopsis	Advertise inactive BGP routes to peers
Context	**configure** router *named-item-64* bgp advertise-inactive *boolean*
Tree	advertise-inactive
Description	When configured to **true**, this command allows any inactive BGP route to be advertised, even though it is not the used route. When configured to **false**, the advertisement of inactive BGP routes to other BGP peers is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-ipv6-next-hops

Synopsis	Enter the **advertise-ipv6-next-hops** context
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops
Tree	advertise-ipv6-next-hops
Description	Commands in this context allow specified BGP address family routes to be advertised to IPv6 transport peers with a true IPv6 address when originated or when a configured or automatic next-hop-self action is applied. This command context has no effect on routes advertised to IPv4 peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Advertise EVPN route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops evpn *boolean*
Tree	evpn

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Description	When configured to **true**, EVPN routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, EVPN routes are advertised with IPv4 next-hop addresses to IPv6 transport peers.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops ipv4 *boolean*
Tree	ipv4
Description	When configured to **true**, IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, IPv4 routes are advertised with IPv4 next-hop addresses to IPv6 transport peers. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise label IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops label-ipv4 *boolean*
Tree	label-ipv4
Description	When configured to **true**, label IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, label IPv4 routes are advertised with the system IPv4 address as the next hop to IPv6 transport peers. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise label IPv6 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops label-ipv6 *boolean*
Tree	label-ipv6
Description	When configured to **true**, label IPv6 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, label IPv6 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop, encoded as an IPv4-mapped IPv6 address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise VPN IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops vpn-ipv4 *boolean*
Tree	vpn-ipv4
Description	When configured to **true**, VPN IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, VPN IPv4 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpn-ipv6 *boolean*

Synopsis	Advertise VPN IPv6 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp advertise-ipv6-next-hops vpn-ipv6 *boolean*
Tree	vpn-ipv6
Description	When configured to **true**, VPN IPv6 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, VPN IPv6 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop, encoded as an IPv4-mapped IPv6 address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregator-id-zero *boolean*

Synopsis	Set router ID in the BGP AGGREGATOR attribute to 0
Context	**configure** router *named-item-64* bgp aggregator-id-zero *boolean*
Tree	aggregator-id-zero
Description	When configured to **true**, the router ID in the BGP AGGREGATOR path attribute is set to 0 when BGP aggregates routes. This prevents different routers within an AS from creating aggregate routes for the same prefix with different path attributes. When configured to **false**, the AS number and router ID are added to the AGGREGATOR path attribute.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

asn-4-byte *boolean*

Synopsis	Advertise support for 4-byte ASNs
Context	**configure** router *named-item-64* bgp asn-4-byte *boolean*
Tree	asn-4-byte
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-key *encrypted-leaf*

Synopsis	BGP authentication key for all peers
Context	**configure** router *named-item-64* bgp authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key used to protect all sessions. The stored format of the authentication key is based on the **configure system security hash-control management-interface md-cli hash-algorithm** setting. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** router *named-item-64* bgp authentication-keychain *reference*
Tree	authentication-keychain
Description	This command associates the keychain to be used to authenticate the BGP session. The keychain allows the rollover of authentication keys during the lifetime of a session.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-path

Synopsis	Enter the **backup-path** context
Context	**configure** router *named-item-64* bgp backup-path
Tree	backup-path
Description	Commands in this context enable the use of a backup path for specified BGP-learned prefixes belonging to the base router. Multiple paths must be received for a prefix in order to take advantage of this feature. When a prefix has a backup path and its primary paths fail, the affected traffic is rapidly diverted to the backup path without waiting for control plane re-convergence to occur. When many prefixes share the same primary paths and in some cases, the same backup path, the time to divert failover traffic to the backup path is independent of the number of prefixes.

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By default, IPv4 and IPv6 prefixes do not have a backup path installed in the IOM.

Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** router *named-item-64* bgp backup-path ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** router *named-item-64* bgp backup-path ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** router *named-item-64* bgp backup-path label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Enable support for labeled-unicast IPv6 routes
Context	**configure** router *named-item-64* bgp backup-path label-ipv6 *boolean*

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Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

best-path-selection

Synopsis	Enter the **best-path-selection** context
Context	**configure** router *named-item-64* bgp best-path-selection
Tree	best-path-selection
Introduced	25.3.R2
Platforms	SAR Gen 2

always-compare-med

Synopsis	Enter the **always-compare-med** context
Context	**configure** router *named-item-64* bgp best-path-selection always-compare-med
Tree	always-compare-med
Description	Commands in this context determine how the BGP decision process is affected by the MED path attribute.
Introduced	25.3.R2
Platforms	SAR Gen 2

med-value *keyword*

Synopsis	Action for a missing MED attribute
Context	**configure** router *named-item-64* bgp best-path-selection always-compare-med med-value *keyword*
Tree	med-value
Options	off, missing-med-zero, missing-med-infinity, on
Default	off
Introduced	25.3.R2
Platforms	SAR Gen 2

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strict-as *boolean*

Synopsis	Compare MED only for routes from same neighbor AS
Context	**configure** router *named-item-64* bgp best-path-selection always-compare-med strict-as *boolean*
Tree	strict-as
Description	When configured to **true**, the route selection process can compare the MED path attribute between routes only if they come from the same neighbor AS. When configured to **false**, the route selection process can compare the MED path attribute between routes even if they come from different neighbor ASs.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path-ignore

Synopsis	Enter the **as-path-ignore** context
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore
Tree	as-path-ignore
Description	Commands in this context determine whether the AS path length is considered in the selection process for routes of the specified address families.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Ignore AS path length for unlabeled unicast IPv4 routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Ignore AS path length for unlabeled unicast IPv6 routes

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Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

l2-vpn *boolean*

Synopsis	Ignore AS path length for L2-VPN routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore l2-vpn *boolean*
Tree	l2-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Ignore AS path length for labeled-unicast IPv4 routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Ignore AS path length for labeled-unicast IPv6 routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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mcast-ipv4 *boolean*

Synopsis	Ignore AS path length for IPv4 multicast routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Ignore AS path length for IPv6 multicast routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore mcast-ipv6 *boolean*
Tree	mcast-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Ignore AS path length for VPN IPv4 (SAFI 128) routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Ignore AS path length for VPN IPv6 (SAFI 128) routes
Context	**configure** router *named-item-64* bgp best-path-selection as-path-ignore vpn-ipv6 *boolean*
Tree	vpn-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

compare-origin-validation-state *boolean*

Synopsis	Compare RPKI origin validation state of usable routes
Context	**configure** router *named-item-64* bgp best-path-selection compare-origin-validation-state *boolean*
Tree	compare-origin-validation-state
Description	When configured to **true**, the RPKI origin validation state is compared between BGP routes, where a Valid state is preferred over a Not-Found state, and a Not-Found state is preferred over an Invalid state. When configured to **false**, the RPKI origin validate state comparison is not performed as part of the BGP route selection process.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

d-path-length-ignore *boolean*

Synopsis	Enable D-PATH length ignore
Context	**configure** router *named-item-64* bgp best-path-selection d-path-length-ignore *boolean*
Tree	d-path-length-ignore
Description	When configured to **true**, this command, enables the router to ignore the D-PATH domain segment length during best-path selection. At the base router level (or VPRN BGP level for PE-CE routers), this command allows BGP to ignore the D-PATH domain segment length for best-path selection purposes. BGP ignores the D-PATH length when comparing two VPN routes or two IFL routes within the same RD. However, these VPN/IFL routes are processed in the main-BGP instance. At the VPRN router level, this command allows the VPRN RTM to ignore the D-PATH domain segment length for best-path selection purposes (for routes in VPRN). The user can control whether the RTM considers the D-PATH length when comparing two VPN routes with different RDs. Best-path selection for EVPN-IFF routes against other owners (for example, EVPN-IFL or IPVPN) still relies on RTM preference. When EVPN-IFF RTM preference matches the RTM preference of another BGP owner, the existing RTM selection applies and D-PATH is not considered, irrespective of the **d-path-length-ignore** configuration.

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When configured to **false**, this command disables the ability to ignore the D-PATH domain segment length.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

deterministic-med *boolean*

Synopsis	Group paths based on AS before MED attribute comparison
Context	**configure** router *named-item-64* bgp best-path-selection deterministic-med *boolean*
Tree	deterministic-med
Description	When configured to **true**, BGP groups paths from the same AS that are equal up to the MED attribute comparison and then compares the best path from each group to select the overall best path. This process ensures that the best-path selection process is deterministic in all cases. When configured to **false**, paths are not grouped and the overall best-path selection can depend on the order of route arrival.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-ibgp-equal

Synopsis	Enter the **ebgp-ibgp-equal** context
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal
Tree	ebgp-ibgp-equal
Description	Commands in this context allow BGP to ignore the difference between EBGP and IBGP routes in selecting the best path and eligible multipaths (if multipath and ECMP are enabled) for the specified address families. The result is a form of EIBGP load-balancing in a multipath scenario. This behavior can be applied selectively to certain address families. By default, the BGP decision process prefers an EBGP learned route over an IBGP learned route.
Introduced	25.3.R2
Platforms	SAR Gen 2

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evpn *boolean*

Synopsis	Consider EBGP and IBGP EVPN routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Consider EBGP and IBGP IPv4 routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Consider EBGP and IBGP IPv6 routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Consider EBGP and IBGP label-IPv4 routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Consider EBGP and IBGP label-IPv6 routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Consider EBGP and IBGP VPN-IPv4 routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Consider EBGP and IBGP VPN-IPv6 routes equal
Context	**configure** router *named-item-64* bgp best-path-selection ebgp-ibgp-equal vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-nh-metric *boolean*

Synopsis	Ignore next-hop distance in best path selection
Context	**configure** router *named-item-64* bgp best-path-selection ignore-nh-metric *boolean*

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Tree	ignore-nh-metric
Description	When configured to **true**, BGP ignores the resolved distance to the BGP next hop in its route selection process. When configured to **false**, BGP factors the distance to the next hop into its decision process when it compares two BGP routes with the same NLRI learned from base router BGP peers (in the **router** context) or IP prefix learned from VPRN BGP peers (in the **vprn** context).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-router-id

Synopsis	Enable the **ignore-router-id** context
Context	**configure** router *named-item-64* bgp best-path-selection ignore-router-id
Tree	ignore-router-id
Description	Commands in this context determine whether the BGP selection process ignores the BGP identifier (router ID) comparison of two EBGP paths from different EBGP peers when determining the best path for the specified address families. By default, BGP selects the path with the lower router ID when it compares two paths from EBGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

include-internal

Synopsis	Enter the **include-internal** context
Context	**configure** router *named-item-64* bgp best-path-selection ignore-router-id include-internal
Tree	include-internal
Description	Commands in this context specify the internal address families for which the router ID values are ignored, even when comparing two IBGP paths or an EBGP and an IBGP path.
Introduced	25.3.R2
Platforms	SAR Gen 2

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origin-invalid-unusable *boolean*

Synopsis	Deem invalid routes unusable for best-path selection
Context	**configure** router *named-item-64* bgp best-path-selection origin-invalid-unusable *boolean*
Tree	origin-invalid-unusable
Description	When configured to **true**, routes that have an RPKI origin validation state of Invalid are considered unusable by the best-path selection algorithm. These routes cannot be used for forwarding and cannot be advertised to BGP peers. When configured to **false**, routes with an RPKI origin validation state of Invalid are compared to other usable routes for the same prefix according to the BGP decision process.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** router *named-item-64* bgp bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, BFD is enabled on all BGP sessions, subject to the association of those BGP sessions with IP interfaces that have BFD configurations. When configured to **false**, BFD is not enabled globally for all BGP sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-strict-mode

Synopsis	Enter the **bfd-strict-mode** context
Context	**configure** router *named-item-64* bgp bfd-strict-mode
Tree	bfd-strict-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise

Synopsis	Enable the **advertise** context
Context	**configure** router *named-item-64* bgp bfd-strict-mode advertise
Tree	advertise
Description	Commands in this context configure BGP to advertise the Strict-BFD capability to peers that are within scope of this command and meet the following requirements: • The inherited or configured value for the **bfd-liveness** command that applies to the peer is **true**. • The interface associated with the peer has a valid BFD configuration. When the preceding conditions are satisfied and two peers attempting to form a session both advertise the Strict-BFD capability, the BGP finite state machine in each router transitions the session state to established after the BFD session with the peer enters the up state. When unconfigured, BGP does not advertise the Strict-BFD capability to peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Maximum time BGP waits for the BFD session to come up
Context	**configure** router *named-item-64* bgp bfd-strict-mode advertise holdtime *number*
Tree	holdtime
Description	This command configures the maximum time BGP waits for the BFD session to come up, provided that the Strict-BFD procedures apply to a session, and the negotiated BGP hold time is zero (no keepalives). If the negotiated BGP hold time is greater than zero, the advertised hold time is not considered.
Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-reachability *boolean*

Synopsis	Consider next hop unreachable if BFD session is down
Context	**configure** router *named-item-64* bgp bfd-strict-mode next-hop-reachability *boolean*

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Tree	next-hop-reachability
Description	When configured to **true**, the router considers next-hop self routes belonging to specific address families received from a peer within scope of this command as having an unresolved next hop, provided that the following requirements are met: • The BFD session to the peer is in a down state. • There is a valid interface BFD configuration that applies to the peer. • There is a valid BFD liveness configuration that applies to the peer. The unresolved state is maintained until the BFD session state changes to up or administratively down, even if there is a resolving route or tunnel that matches the BGP next-hop address. Routes received from one peer with a BGP next-hop address equal to the address of another peer are not affected by the BFD session to the other peer. The behavior of the router when this command is **true** does not depend on whether Strict-BFD is used, as both features are independent. Configuring this command to **true** only affects routes belonging to the following address families: • IPv4 • IPv6 • IPv4 VPN • IPv6 VPN • labeled unicast IPv4 • labeled unicast IPv6 • EVPN • IPv4 multicast • IPv6 multicast • IPv4 VPN multicast • IPv6 VPN multicast When configured to **false**, the router does not consider next-hop self routes belonging to the preceding address families as having an unresolved next hop if the BFD session goes down.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-tunnel-metric

Synopsis	Enter the **bgp-tunnel-metric** context
Context	**configure** router *named-item-64* bgp bgp-tunnel-metric

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Tree	bgp-tunnel-metric
Description	Commands in this context control the tunnel table metrics associated with BGP label unicast routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-aigp *boolean*

Synopsis	Use the AIGP attribute as tunnel metric when present
Context	**configure** router *named-item-64* bgp bgp-tunnel-metric prefer-aigp *boolean*
Tree	prefer-aigp
Description	When configured to **true**, the TTM metric is based on the AIGP metric if the route has the path attribute. When the BGP-LU route is selected for installation in TTM and it is not matched by a BGP import policy entry that overrides the BGP tunnel metric action, the TTM metric of the tunnel is set to the AIGP metric value of the BGP-LU route plus the resolved cost to the BGP next-hop of the route; otherwise, the metric is set to the value in the **value** setting. When configured to **false**, the AIGP attribute is ignored for purposes to TTM metric derivation.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-med *boolean*

Synopsis	Use the MED attribute as tunnel metric when present
Context	**configure** router *named-item-64* bgp bgp-tunnel-metric prefer-med *boolean*
Tree	prefer-med
Description	When configured to **true**, the TTM metric is based on the MED metric value of the BGP-LU route. When a BGP-LU route is selected for installation in TTM and is not matched by a BGP import policy entry that overrides the BGP tunnel metric action, the TTM metric of the tunnel is set to the MED metric value of the BGP-LU route with the resolved cost to the BGP next hop of the route added to it. Otherwise, the metric is set to the value configured using the **value** command. When configured to **false**, the MED attribute is ignored for TTM metric derivation. **Note: prefer-aigp** takes precedence over this command if the received BGP-LU has both attributes.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

value *number*

Synopsis	BGP tunnel metric value
Context	**configure** router *named-item-64* bgp bgp-tunnel-metric value *number*
Tree	value
Description	This command configures a BGP tunnel metric for label IPv4 routes that do not have their metric set by more specific means. If a BGP-LU route is selected for installation in the TTM and there is no tunnel metric policy action that applies to the route, the TTM metric of the associated tunnel is set to this value if either: • **prefer-aigp** is set to **false** • **prefer-aigp** is set to **true** but the BGP-LU route does not have an AIGP attribute
Range	0 to 4294967295
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-tunnel-preference *number*

Synopsis	BGP tunnel table preference
Context	**configure** router *named-item-64* bgp bgp-tunnel-preference *number*
Tree	bgp-tunnel-preference
Description	This command configures the tunnel table preference for BGP-LU tunnel type. The tunnel table preference applies to next-hop resolution of BGP routes for: EVPN, IPv4, IPv6, VPN-IPv4, VPN-IPv6, label-IPv4, and label-IPV6 in the tunnel table. This feature does not apply to a VPRN, VPLS, or VLL service with explicit binding to an SDP that enabled the **mixed-lsp-mode** option. The service manager controls and fixes the tunnel preference in such an SDP. The tunnel table preference configuration does not modify the SDP behavior, nor the services that bind to it.
Range	1 to 255
Default	12
Introduced	25.3.R2
Platforms	SAR Gen 2

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block-prefix-sid *boolean*

Synopsis	Block the prefix SID attribute
Context	**configure** router *named-item-64* bgp block-prefix-sid *boolean*
Tree	block-prefix-sid
Description	When configured to **true**, all prefix SID attributes are removed from label IPv4 and label IPv6 routes when they are exchanged with EBGP and IBGP peers covered by the scope of the command. Locally-imposed prefix SID attributes are also removed. When configured to **false**, all prefix SID attributes associated with label IPv4 and label IPv6 routes are propagated without restriction. A change of this configuration causes the affected BGP sessions to flap.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

client-reflect *boolean*

Synopsis	Allow client reflection of routes by route reflector
Context	**configure** router *named-item-64* bgp client-reflect *boolean*
Tree	client-reflect
Description	When configured to **true**, routes received from neighbors considered to be RR clients are reflected to other peers as expected. When configured to **false**, routes received from neighbors considered to be RR clients are not reflected to other clients.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster

Synopsis	Enter the **cluster** context
Context	**configure** router *named-item-64* bgp cluster
Tree	cluster
Introduced	25.3.R2
Platforms	SAR Gen 2

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allow-local-fallback *boolean*

Synopsis	Allow fallback to RR topology location for ORR
Context	**configure** router *named-item-64* bgp cluster allow-local-fallback *boolean*
Tree	allow-local-fallback
Description	When configured to **true**, this command allows the RR to advertise the best BGP path from its own topology location when there are no reachable routes from the client's ORR location. The ORR location must be specified before this command can be set to **true**. When configured to **false**, no route is advertised to the clients when there are no reachable routes from the client's ORR location.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id *ipv4-address*

Synopsis	Route reflector cluster ID
Context	**configure** router *named-item-64* bgp cluster cluster-id *ipv4-address*
Tree	cluster-id
Description	The command specifies the cluster ID to associate with the routing instance, effectively making all IBGP peers of the routing instance RR clients.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

orr-location *number*

Synopsis	Optimal route reflection location for the cluster
Context	**configure** router *named-item-64* bgp cluster orr-location *number*
Tree	orr-location
Description	This command configures an ORR location ID. If a cluster ID is also specified, the clients in that cluster receive routes optimal for that specific location. With optimal route reflection, the best path advertised to a client takes location ID into account. If the tie-break for best path (or Add-Paths) comes down to next-hop IGP cost, the IGP costs will be calculated relative to the specified location. In the SR OS implementation, the IGP costs from arbitrary ORR locations are calculated using OSPF, OSPFv3, IS-IS, or BGP-LS information in the TE DB.

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Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

connect-retry *number*

Synopsis	BGP connect retry timer value
Context	**configure** router *named-item-64* bgp connect-retry *number*
Tree	connect-retry
Description	This command configures the BGP connect retry timer. When the timer expires, BGP tries to reconnect to the configured peer.
Range	1 to 65535
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

convergence

Synopsis	Enter the **convergence** context
Context	**configure** router *named-item-64* bgp convergence
Tree	convergence
Description	Commands in this context configure the route convergence delay.
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp convergence family *keyword*
Tree	family
Description	Commands in this context configure route convergence options for a specific BGP address family, specifically, the maximum amount of time BGP waits until it advertises the routes of the address family to its BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**family-type**] *keyword*

Synopsis	Address family for which convergence selection applies
Context	**configure** router *named-item-64* bgp convergence family *keyword*
Tree	family
Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, label-ipv4, label-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait-to-advertise *number*

Synopsis	Maximum wait time before advertising routes
Context	**configure** router *named-item-64* bgp convergence family *keyword* max-wait-to-advertise *number*
Tree	max-wait-to-advertise
Range	0 to 3600
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

min-wait-to-advertise *number*

Synopsis	Minimum wait time before advertising routes
Context	**configure** router *named-item-64* bgp convergence min-wait-to-advertise *number*
Tree	min-wait-to-advertise
Range	0 to 3600
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

damp-peer-oscillations

Synopsis	Enable the **damp-peer-oscillations** context
Context	**configure** router *named-item-64* bgp damp-peer-oscillations

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Tree	damp-peer-oscillations
Description	Commands in this context support the DampPeerOscillations FSM behavior described in section 8.1 of RFC 4271, *A Border Gateway Protocol 4 (BGP-4)*. When unconfigured, the router does not perform peer oscillation damping and immediately transitions out of the idle state after every reset.
Introduced	25.3.R2
Platforms	SAR Gen 2

error-interval *number*

Synopsis	Time after a reset that the session must be error-free
Context	**configure** router *named-item-64* bgp damp-peer-oscillations error-interval *number*
Tree	error-interval
Description	This command sets the interval of time after a reset, during which the session must be error-free in order to reset the penalty counter and return the idle hold time to the initial wait time.
Range	0 to 2048
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-hold-time

Synopsis	Enter the **idle-hold-time** context
Context	**configure** router *named-item-64* bgp damp-peer-oscillations idle-hold-time
Tree	idle-hold-time
Description	Commands in this context configure how long a BGP peer session remains in the idle state after some type of error causes the session to reset. In the idle state, BGP does not initiate or respond to attempts to establish a new session. Repeated errors that occur in a short time period after each session reset cause longer and longer hold times in the idle state.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-wait *number*

Synopsis	Time session remains in idle state after stabilization

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Context	**configure** router *named-item-64* bgp damp-peer-oscillations idle-hold-time initial-wait *number*
Tree	initial-wait
Range	0 to 2048
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait *number*

Synopsis	Maximum session idle time after repeated instability
Context	**configure** router *named-item-64* bgp damp-peer-oscillations idle-hold-time max-wait *number*
Tree	max-wait
Range	1 to 2048
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Time that doubles after each session failure
Context	**configure** router *named-item-64* bgp damp-peer-oscillations idle-hold-time second-wait *number*
Tree	second-wait
Description	This command defines the hold time that doubles after each repeated session failure that occurs in a short span of time.
Range	1 to 2048
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *boolean*

Synopsis	Use BGP route damping to reduce route flap
Context	**configure** router *named-item-64* bgp damping *boolean*

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Tree	damping
Description	When configured to **true**, this command enables route damping to reduce the number of update messages sent between BGP peers and reduce the load on peers without affecting the route convergence time for stable routes. Route damping is controlled by profiles set in route policies. If no profile is specified in the route policy, the default damping profile is used with the following parameters: • Half-life: 15 minutes • Max-suppress: 60 minutes • Suppress-threshold: 3000 • Reuse-threshold: 750 When configured to **false**, BGP route damping for learned routes is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

def-recv-evpn-encap *keyword*

Synopsis	Default EVPN encapsulation type
Context	**configure** router *named-item-64* bgp def-recv-evpn-encap *keyword*
Tree	def-recv-evpn-encap
Description	This command specifies the encapsulation type that BGP uses when an EVPN route is received without the Encapsulation Extended Community.
Options	mpls, vxlan
Default	mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

default-label-preference

Synopsis	Enter the **default-label-preference** context
Context	**configure** router *named-item-64* bgp default-label-preference
Tree	default-label-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

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ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** router *named-item-64* bgp default-label-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** router *named-item-64* bgp default-label-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

default-preference

Synopsis	Enter the **default-preference** context
Context	**configure** router *named-item-64* bgp default-preference
Tree	default-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** router *named-item-64* bgp default-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** router *named-item-64* bgp default-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* bgp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-neighbor-limit *number*

Synopsis	Max dynamic BGP sessions to accept from remote peers
Context	**configure** router *named-item-64* bgp dynamic-neighbor-limit *number*
Tree	dynamic-neighbor-limit
Description	This command configures the maximum number of dynamic BGP sessions to accept from remote peers associated with the entire BGP instance. If accepting a new dynamic session causes the instance limit to be exceeded, the new session attempt is rejected and a Notification message is sent back to the remote peer.
Range	1 to 8192
Introduced	25.3.R2
Platforms	SAR Gen 2

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ebgp-default-reject-policy

Synopsis	Enter the **ebgp-default-reject-policy** context
Context	**configure** router *named-item-64* bgp ebgp-default-reject-policy
Tree	ebgp-default-reject-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Enable default reject export policy for external peers
Context	**configure** router *named-item-64* bgp ebgp-default-reject-policy export *boolean*
Tree	export
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

import *boolean*

Synopsis	Enable default reject import policy for external peers
Context	**configure** router *named-item-64* bgp ebgp-default-reject-policy import *boolean*
Tree	import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-peer-engineering

Synopsis	Enable the **egress-peer-engineering** context
Context	**configure** router *named-item-64* bgp egress-peer-engineering
Tree	egress-peer-engineering
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of BGP egress engineering
Context	**configure** router *named-item-64* bgp egress-peer-engineering admin-state *keyword*
Tree	admin-state
Description	This command administratively enables or disables egress engineering for the BGP. If enabled, peer node SIDs and peer adjacency SIDs are advertised in BGP-LS.
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-first-as *boolean*

Synopsis	Enforce the configured peer AS value in received routes
Context	**configure** router *named-item-64* bgp enforce-first-as *boolean*
Tree	enforce-first-as
Description	When configured to **true** for an EBGP session, all routes received from an EBGP peer are checked to ensure that the most recent ASN in the AS_PATH attribute of each route matches the configured AS of the session. If there is not a match, the session is reset (if the **update-fault-tolerance** command in the **error-handling** context is set to **false**) or the session is left up but the route is treated as withdrawn (if **update-fault-tolerance** is set to **true**). This command does not flap an established session because it applies only to routes received after the command is issued. When configured to **false**, received routes are not checked for compliance with the rule.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

error-handling

Synopsis	Enter the **error-handling** context
Context	**configure** router *named-item-64* bgp error-handling
Tree	error-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

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legacy-mode *boolean*

Synopsis	Enable legacy-mode of BGP error handling
Context	**configure** router *named-item-64* bgp error-handling legacy-mode *boolean*
Tree	legacy-mode
Description	When configured to **true**, the BGP instance handles the BGP update error messages based on the configured **update-fault-tolerance** commands. If these commands are not explicitly configured, BGP error handling follows the legacy procedures described in RFC 4271, which can result in disruptive session resets. When configured to **false**, the BGP instance ignores the configured **update-fault-tolerance** commands and applies the new error handling procedures described in RFC 7606 on all sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

update-fault-tolerance *boolean*

Synopsis	Tolerate non-critical errors in UPDATE messages
Context	**configure** router *named-item-64* bgp error-handling update-fault-tolerance *boolean*
Tree	update-fault-tolerance
Description	When configured to **true**, non-critical errors are handled with treat-as-withdraw, attribute-discard, and other non-disruptive approaches that do not cause a session reset. Critical errors still trigger a session reset. When configured to **false**, most errors trigger a session reset.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Enable the **export** context
Context	**configure** router *named-item-64* bgp export
Tree	export
Description	Commands in this context specify route policies that control the handling of outbound routes transmitted to all peers. Route policies are configured in the **configure policy-options** context.

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When no export policies are specified in this context, BGP-learned routes are advertised by default and non-BGP routes are not advertised.

Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	List of export policy names
Context	**configure** router *named-item-64* bgp export policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies route policies that control the handling of outbound routes transmitted to certain peers. Each object in this command is either a policy logical expression or the name of a single policy. The objects are evaluated in the specified order to determine the modifications of each route and the final action to accept or reject the route. Only one of the objects referenced by the command can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). When no export policies are specified, BGP-learned routes are advertised by default and non-BGP routes are not advertised.
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-nh-encoding

Synopsis	Enter the **extended-nh-encoding** context
Context	**configure** router *named-item-64* bgp extended-nh-encoding
Tree	extended-nh-encoding
Description	Commands in this context specify the IPv4-related address families that can receive IPv6 next hops from peers. The peers should not send such routes unless the peers receive notification of this capability. If the router receives an enabled address family

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route from a peer to which it did not advertise the necessary capability, the UPDATE message will be considered malformed. This causes either a session reset or treat-as-withdraw behavior depending on the error handling settings.

Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise encoding capability for IPv4 routes
Context	**configure** router *named-item-64* bgp extended-nh-encoding ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise encoding capability for label-IPv4 routes
Context	**configure** router *named-item-64* bgp extended-nh-encoding label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise encoding capability for VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp extended-nh-encoding vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family

Synopsis	Enter the **family** context

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Context	**configure** router *named-item-64* bgp family
Tree	family
Description	Commands in this context specify the BGP address families supported by the base router BGP sessions.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ls *boolean*

Synopsis	Advertise MP-BGP support for the BGP-LS address family
Context	**configure** router *named-item-64* bgp family bgp-ls *boolean*
Tree	bgp-ls
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Advertise MP-BGP support for the EVPN address family
Context	**configure** router *named-item-64* bgp family evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-ipv6 *boolean*

Synopsis	Advertise support for the FlowSpec-IPv6 address family
Context	**configure** router *named-item-64* bgp family flow-ipv6 *boolean*
Tree	flow-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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flow-vpn-ipv4 *boolean*

Synopsis	Advertise support for FlowSpec-VPN IPv4 address family
Context	**configure** router *named-item-64* bgp family flow-vpn-ipv4 *boolean*
Tree	flow-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-vpn-ipv6 *boolean*

Synopsis	Advertise support for FlowSpec-VPN IPv6 address family
Context	**configure** router *named-item-64* bgp family flow-vpn-ipv6 *boolean*
Tree	flow-vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise MP-BGP support for the IPv4 address family
Context	**configure** router *named-item-64* bgp family ipv4 *boolean*
Tree	ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the IPv6 address family
Context	**configure** router *named-item-64* bgp family ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

l2-vpn *boolean*

Synopsis	Advertise MP-BGP support for the L2-VPN address family
Context	**configure** router *named-item-64* bgp family l2-vpn *boolean*
Tree	l2-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise support for the label-IPv4 address family
Context	**configure** router *named-item-64* bgp family label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise support for the label-IPv6 address family
Context	**configure** router *named-item-64* bgp family label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv4 *boolean*

Synopsis	Advertise support for the MCAST-IPv4 address family
Context	**configure** router *named-item-64* bgp family mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Advertise support for the MCAST-IPv6 address family
Context	**configure** router *named-item-64* bgp family mcast-ipv6 *boolean*
Tree	mcast-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv4 *boolean*

Synopsis	Advertise support for the IPv4 VPN MCAST address family
Context	**configure** router *named-item-64* bgp family mcast-vpn-ipv4 *boolean*
Tree	mcast-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv6 *boolean*

Synopsis	Advertise support for the IPv6 VPN MCAST address family
Context	**configure** router *named-item-64* bgp family mcast-vpn-ipv6 *boolean*
Tree	mcast-vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mdt-safi *boolean*

Synopsis	Advertise MP-BGP support for MDT-SAFI address family
Context	**configure** router *named-item-64* bgp family mdt-safi *boolean*
Tree	mdt-safi

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ms-pw *boolean*

Synopsis	Advertise support for multi-segment PW address family
Context	**configure** router *named-item-64* bgp family ms-pw *boolean*
Tree	ms-pw
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target *boolean*

Synopsis	Advertise MP-BGP support for RT constraint routes
Context	**configure** router *named-item-64* bgp family route-target *boolean*
Tree	route-target
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy-ipv4 *boolean*

Synopsis	Advertise MP-BGP support for the SR-policy-IPv4 family
Context	**configure** router *named-item-64* bgp family sr-policy-ipv4 *boolean*
Tree	sr-policy-ipv4
Description	This command allows the router to advertise the capability for AFI1/SAFI73, which corresponds to BGP routes that encode a segment routing policy to an IPv4 destination.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-policy-ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the SR-policy-IPv6 family
Context	**configure** router *named-item-64* bgp family sr-policy-ipv6 *boolean*
Tree	sr-policy-ipv6
Description	This command allows the router to advertise the capability for AFI2/SAFI73, which corresponds to BGP routes that encode a segment routing policy to an IPv6 destination.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise MP-BGP support for IPv4 VPN address family
Context	**configure** router *named-item-64* bgp family vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Advertise MP-BGP support for IPv6 VPN address family
Context	**configure** router *named-item-64* bgp family vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-external-failover *boolean*

Synopsis	Drop external BGP session immediately when link fails
Context	**configure** router *named-item-64* bgp fast-external-failover *boolean*
Tree	fast-external-failover

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Description	When configured to **true**, the router drops an external BGP session to a single-hop neighbor immediately when the local interface goes down. When configured to **false**, the BGP session remains up until the hold time expires.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** router *named-item-64* bgp graceful-restart
Tree	graceful-restart
Description	Commands in this context configure BGP graceful restart helper procedures for address families included in the GR capabilities of both peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

gr-notification *boolean*

Synopsis	Perform Graceful Restart procedures
Context	**configure** router *named-item-64* bgp graceful-restart gr-notification *boolean*
Tree	gr-notification
Description	When configured to **true**, the Graceful Restart capability sent by the router indicates support for NOTIFICATION messages. If the peer also supports this capability, the session is restarted gracefully (while preserving forwarding) if either peer sends a NOTIFICATION message due to some type of event or error. When configured to **false**, NOTIFICATION messages are not supported.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

long-lived

Synopsis	Enable the **long-lived** context
Context	**configure** router *named-item-64* bgp graceful-restart long-lived
Tree	long-lived

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Description	Commands in this context configure the BGP Long-Lived Graceful-Restart (LLGR) procedures. LLGR, known informally as BGP persistence, is an extension of BGP GR that allows a session to stay down for a longer period of time. During this time, learned routes are marked and re-advertised as stale but they can continue to be used as routes of last resort. The LLGR handling of a session failure can be invoked immediately or it can be delayed until the end of the traditional GR restart window.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-stale-to-all-neighbors *boolean*

Synopsis	Advertise stale routes to all BGP peers
Context	**configure** router *named-item-64* bgp graceful-restart long-lived advertise-stale-to-all-neighbors *boolean*
Tree	advertise-stale-to-all-neighbors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time
Context	**configure** router *named-item-64* bgp graceful-restart long-lived advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp graceful-restart long-lived family *keyword*
Tree	family

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Family type for family-specific LLGR configuration
Context	**configure** router *named-item-64* bgp graceful-restart long-lived family *keyword*
Tree	family
Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, l2-vpn, flow-ipv4, route-target, flow-ipv6, label-ipv4, label-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time for family override
Context	**configure** router *named-item-64* bgp graceful-restart long-lived family *keyword* advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** router *named-item-64* bgp graceful-restart long-lived family *keyword* helper-override-stale-time *number*
Tree	helper-override-stale-time
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

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forwarding-bits-set *keyword*

Synopsis	BGP LLGR forwarding-bit behavior for address family
Context	**configure** router *named-item-64* bgp graceful-restart long-lived forwarding-bits-set *keyword*
Tree	forwarding-bits-set
Description	This command determines the setting of the F bit in the GR and LLGR capabilities advertised by the router. When the F bit is set for an address family, it indicates that the advertising router is able to preserve forwarding state for the routes of that address family across the last restart. When the session is re-established after a restart and the F bit is not set, all stale routes from the peer are immediately removed for the corresponding address family. This command allows the F bit to be set for all address families or only for non-forwarding address families (L2-VPN, route target, flow-IPv4, and flow-IPv6).
Options	none, all, non-fwd
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-restart-time *number*

Synopsis	Locally-configured override for restart time
Context	**configure** router *named-item-64* bgp graceful-restart long-lived helper-override-restart-time *number*
Tree	helper-override-restart-time
Description	This command overrides the restart time advertised by a peer (in its GR capability) with a locally-configured value. This override applies only to AFI/SAFI that were included in the GR capability of the peer. The restart-time is always zero for AFI/SAFI not included in the GR capability. This command is useful if the local router wants to force the LLGR phase to begin after a set time for all protected AFI/SAFI.
Range	0 to 4095
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** router *named-item-64* bgp graceful-restart long-lived helper-override-stale-time *number*

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Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability except for any AFI/SAFI with a family-specific override.
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

without-no-export *boolean*

Synopsis	Advertise LLGR stale routes to non-LLGR peers
Context	**configure** router *named-item-64* bgp graceful-restart long-lived without-no-export *boolean*
Tree	without-no-export
Description	When configured to **true**, LLGR stale routes can be advertised to any peer (EBGP or IBGP) that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0. When configured to **false**, LLGR stale routes are not advertised to any EBGP peer that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0 and a NO_EXPORT standard community is automatically added to the routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

restart-time *number*

Synopsis	Restart time advertised by GR capability
Context	**configure** router *named-item-64* bgp graceful-restart restart-time *number*
Tree	restart-time
Range	0 to 4095
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

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stale-routes-time *number*

Synopsis	Maximum time to maintain routes after graceful restart
Context	**configure** router *named-item-64* bgp graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Default	360
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *named-item-64*

Synopsis	Enter the **group** list instance
Context	**configure** router *named-item-64* bgp group *named-item-64*
Tree	group
Description	Commands in this context define BGP peer groups and their group-specific command options. The options in this context are identical to the global BGP options. Any options that are not overridden by the group-specific commands inherit the configuration settings from the BGP global level.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *named-item-64*

Synopsis	BGP peer group name
Context	**configure** router *named-item-64* bgp group *named-item-64*
Tree	group
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

add-paths

Synopsis	Enable the **add-paths** context

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Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths
Tree	add-paths
Description	Commands in this context allow the add-paths node to be configured for the specified families for configuration of the BGP group or neighbor. The BGP add-paths capability allows the router to send or receive multiple paths per prefix to and from a peer. When unconfigured, command settings are inherited from a higher level BGP configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths evpn
Tree	evpn
Description	Commands in this context configure the add-paths capability for EVPN routes. By default, add-paths is not enabled for EVPN routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple EVPN paths per prefix from a peer
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths evpn receive *boolean*
Tree	receive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per EVPN prefix to Add-Path peers
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths evpn send *(number | keyword)*
Tree	send
Range	1 to 16

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Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv4 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, the router can receive multiple unlabeled IPv4 unicast routes per prefix from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per unlabeled IPv4 unicast prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths per unlabeled IPv4 unicast prefix that are allowed to be advertised to ADD-PATH peers. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for unlabeled IPv4 unicast routes.

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Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per IPv6 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple unlabeled IPv6 unicast routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per unlabeled IPv6 unicast prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths per unlabeled IPv4 unicast prefix that are allowed to be advertised to ADD-PATH peers. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules.

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When not configured, ADD-PATH send capability is not enabled for unlabeled IPv4 unicast routes.

Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4

Synopsis	Enter the **label-ipv4** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths label-ipv4
Tree	label-ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv4 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths label-ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple labeled-unicast routes per IPv4 prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per labeled IPv4 unicast prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths label-ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per labeled IPv4 unicast prefix. The actual number of

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advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules.

When not configured, ADD-PATH send capability is not enabled for labeled IPv4 unicast routes.

Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6

Synopsis	Enter the **label-ipv6** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths label-ipv6
Tree	label-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv6 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths label-ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple labeled-unicast routes per IPv6 prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per labeled IPv6 unicast prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths label-ipv6 send *(number | keyword)*
Tree	send

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Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per labeled IPv6 unicast prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for labeled IPv6 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4

Synopsis	Enter the **vpn-ipv4** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths vpn-ipv4
Tree	vpn-ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per VPN-IPv4 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths vpn-ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple VPN-IPv4 routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per VPN-IPv4 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths vpn-ipv4 send *(number | keyword)*

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Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per VPN-IPv4 prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for VPN-IPv4 routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6

Synopsis	Enter the **vpn-ipv6** context
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths vpn-ipv6
Tree	vpn-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per VPN-IPv6 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths vpn-ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple VPN-IPv6 routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per VPN-IPv6 prefix
Context	**configure** router *named-item-64* bgp group *named-item-64* add-paths vpn-ipv6 send *(number | keyword)*

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Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per VPN-IPv6 prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for VPN-IPv6 routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the BGP group
Context	**configure** router *named-item-64* bgp group *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-inactive *boolean*

Synopsis	Advertise an inactive BGP route to peers
Context	**configure** router *named-item-64* bgp group *named-item-64* advertise-inactive *boolean*
Tree	advertise-inactive
Description	When configured to **true**, this command allows an inactive BGP route to be advertised, even though it is not the most preferred route. The effect of the command on advertised unlabeled, labeled, and multicapt IPv4 and IPv6 routes depends on several factors. • If the active route for the IP prefix is a BGP route, that route is advertised. • If the active route is a non-BGP route and there are valid inactive BGP routes to the same destination, the best valid inactive route is advertise unless the active non-BGP route is matched and accepted by an export policy applied to the session • If the active route is a non-BGP route and there are no valid BGP routes to the same destination, no route is advertised unless the active non-BGP route is matched and accepted by an export policy applied to the session. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicity configured to **false**.

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When this command inherits a value of **false**, the advertisement of inactive BGP routes to other BGP peers is disabled.

Introduced 25.3.R2

Platforms SAR Gen 2

advertise-ipv6-next-hops

Synopsis Enable the **advertise-ipv6-next-hops** context

Context **configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops

Tree advertise-ipv6-next-hops

Description Commands in this context allow specified IP family routes to be advertised to IPv6 transport peers with a true IPv6 address when originated or when a configured or automatic next-hop-self action is applied.

When unconfigured, command settings are inherited from a higher level BGP configuration.

Introduced 25.3.R2

Platforms SAR Gen 2

evpn *boolean*

Synopsis Advertise EVPN route with IPv6 next-hop address

Context **configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops evpn *boolean*

Tree evpn

Description When configured to **true**, EVPN routes are advertised with IPv6 next-hop addresses to IPv6 transport peers.

When configured to **false**, EVPN routes are advertised with IPv4 next-hop addresses to IPv6 transport peers.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

ipv4 *boolean*

Synopsis Advertise IPv4 route with IPv6 next-hop address

Context **configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops ipv4 *boolean*

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Tree	ipv4
Description	When configured to **true**, IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, IPv4 routes are advertised with IPv4 next-hop addresses to IPv6 transport peers. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise label IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops label-ipv4 *boolean*
Tree	label-ipv4
Description	When configured to **true**, label IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, label IPv4 routes are advertised with the system IPv4 address as the next hop to IPv6 transport peers. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise label IPv6 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops label-ipv6 *boolean*
Tree	label-ipv6

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Description	When configured to **true**, label IPv6 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, label IPv6 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop, encoded as an IPv4-mapped IPv6 address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise VPN IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops vpn-ipv4 *boolean*
Tree	vpn-ipv4
Description	When configured to **true**, VPN IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, VPN IPv4 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Advertise VPN IPv6 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp group *named-item-64* advertise-ipv6-next-hops vpn-ipv6 *boolean*
Tree	vpn-ipv6
Description	When configured to **true**, VPN IPv6 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, VPN IPv6 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop, encoded as an IPv4-mapped IPv6 address.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregator-id-zero *boolean*

Synopsis	Set router ID in the BGP AGGREGATOR attribute to zero
Context	**configure** router *named-item-64* bgp group *named-item-64* aggregator-id-zero *boolean*
Tree	aggregator-id-zero
Introduced	25.3.R2
Platforms	SAR Gen 2

aigp *boolean*

Synopsis	Add AIGP attribute to advertised routes
Context	**configure** router *named-item-64* bgp group *named-item-64* aigp *boolean*
Tree	aigp
Description	When configured to **true**, this command enables Accumulated IGP (AIGP) path attribute support with one or more BGP peers. BGP path selection among routes with an associated AIGP metric is based on the end-to-end IGP metrics of the different BGP paths, even when these BGP paths span more than one AS and IGP instance. When configured to **false**, the AIGP attribute is removed from advertised routes, if present, and is ignored in received routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

as-override *boolean*

Synopsis	Replace the peer ASN with the local ASN in AS Path
Context	**configure** router *named-item-64* bgp group *named-item-64* as-override *boolean*
Tree	as-override
Description	When configured to **true**, the advertising router's local AS replaces all occurrences of the peer AS in the AS_PATH attribute. This command should be used with caution, as it breaks BGP's loop detection mechanism. When configured to **false**, no AS override is performed.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

asn-4-byte *boolean*

Synopsis	Advertise the use of 4-byte ASNs
Context	**configure** router *named-item-64* bgp group *named-item-64* asn-4-byte *boolean*
Tree	asn-4-byte
Description	When this command inherits a value of **true**, the use of 4-byte ASNs is supported. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When configured to **false**, this command disables the use of 4-byte ASNs.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	BGP authentication key for peers in the group
Context	**configure** router *named-item-64* bgp group *named-item-64* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key that must be configured on both peers. The stored format of the authentication key is based on the **configure system security hash-control management-interface md-cli hash-algorithm** setting**.** This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** router *named-item-64* bgp group *named-item-64* authentication-keychain *reference*

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Tree	authentication-keychain
Description	This command associates the keychain to be used to authenticate the BGP session. The keychain allows the rollover of authentication keys during the lifetime of a session.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** router *named-item-64* bgp group *named-item-64* bfd-liveness *boolean*
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-strict-mode

Synopsis	Enter the **bfd-strict-mode** context
Context	**configure** router *named-item-64* bgp group *named-item-64* bfd-strict-mode
Tree	bfd-strict-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** router *named-item-64* bgp group *named-item-64* bfd-strict-mode advertise
Tree	advertise
Description	Commands in this context configure BGP to advertise the Strict-BFD capability to peers that are within scope of this command and meet the following requirements: • The inherited or configured value for the **bfd-liveness** command that applies to the peer is **true**. • The interface associated with the peer has a valid BFD configuration. When the preceding conditions are satisfied and two peers attempting to form a session both advertise the Strict-BFD capability, the BGP finite state machine in each router transitions the session state to established after the BFD session with the peer enters the up state.

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When unconfigured, BGP does not advertise the Strict-BFD capability to peers.

Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Maximum time BGP waits for the BFD session to come up
Context	**configure** router *named-item-64* bgp group *named-item-64* bfd-strict-mode advertise holdtime *number*
Tree	holdtime
Description	This command configures the maximum time BGP waits for the BFD session to come up, provided that the Strict-BFD procedures apply to a session, and the negotiated BGP hold time is zero (no keepalives). If the negotiated BGP hold time is greater than zero, the advertised hold time is not considered.
Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-reachability *boolean*

Synopsis	Consider next hop unreachable if BFD session is down
Context	**configure** router *named-item-64* bgp group *named-item-64* bfd-strict-mode next-hop-reachability *boolean*
Tree	next-hop-reachability
Description	When configured to **true**, the router considers next-hop self routes belonging to specific address families received from a peer within scope of this command as having an unresolved next hop, provided that the following requirements are met: • The BFD session to the peer is in a down state. • There is a valid interface BFD configuration that applies to the peer. • There is a valid BFD liveness configuration that applies to the peer. The unresolved state is maintained until the BFD session state changes to up or administratively down, even if there is a resolving route or tunnel that matches the BGP next-hop address. Routes received from one peer with a BGP next-hop address equal to the address of another peer are not affected by the BFD session to the other peer. The behavior of the router when this command is **true** does not depend on whether Strict-BFD is used, as both features are independent.

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Configuring this command to **true** only affects routes belonging to the following address families:

- IPv4
- IPv6
- IPv4 VPN
- IPv6 VPN
- labeled unicast IPv4
- labeled unicast IPv6
- EVPN
- IPv4 multicast
- IPv6 multicast
- IPv4 VPN multicast
- IPv6 VPN multicast

When configured to **false**, the router does not consider next-hop self routes belonging to the preceding address families as having an unresolved next hop if the BFD session goes down.

Introduced 25.3.R2

Platforms SAR Gen 2

block-prefix-sid *boolean*

Synopsis Block the prefix SID attribute

Context **configure** router *named-item-64* bgp group *named-item-64* block-prefix-sid *boolean*

Tree block-prefix-sid

Description When configured to **true**, all prefix SID attributes are removed from all routes exchanged between EBGP and IBGP peers covered by the scope of the command. Locally-imposed prefix SID attributes are also removed.

When configured to **false**, all prefix SID attributes are propagated without restriction.

A change of this configuration causes the affected BGP sessions to flap.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

capability-negotiation *boolean*

Synopsis Enable capability negotiation

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Context	**configure** router *named-item-64* bgp group *named-item-64* capability-negotiation *boolean*
Tree	capability-negotiation
Description	When configured to **true**, this command enables the exchange of capabilities. When configured to **false** and the peering is flapped, new capabilities are not negotiated and strictly IPv4 exchanges are supported with the peer.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

client-reflect *boolean*

Synopsis	Allow cluster RR to advertise routes to its clients
Context	**configure** router *named-item-64* bgp group *named-item-64* client-reflect *boolean*
Tree	client-reflect
Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When the command inherits a value of **true**, client reflection of routes is enabled. When configured to **false**, this command disables client reflection of routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster

Synopsis	Enter the **cluster** context
Context	**configure** router *named-item-64* bgp group *named-item-64* cluster
Tree	cluster
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-local-fallback *boolean*

Synopsis	Allow fallback to RR topology location
Context	**configure** router *named-item-64* bgp group *named-item-64* cluster allow-local-fallback *boolean*
Tree	allow-local-fallback

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Description	When configured to **true**, this command allows the RR to advertise the best BGP path from its own topology location when there are no reachable routes from the client's ORR location. The ORR location must be specified before this command can be set to **true**. When configured to **false**, no route is advertised to the client.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id *ipv4-address*

Synopsis	Route reflector cluster ID
Context	**configure** router *named-item-64* bgp group *named-item-64* cluster cluster-id *ipv4-address*
Tree	cluster-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

orr-location *number*

Synopsis	Optimal route reflection location for the cluster
Context	**configure** router *named-item-64* bgp group *named-item-64* cluster orr-location *number*
Tree	orr-location
Description	This command configures an ORR location ID. If a cluster ID is also specified, the clients in that cluster receive routes optimal for that specific location. With optimal route reflection, the best path advertised to a client takes location ID into account. If the tie-break for best path (or Add-Paths) comes down to next-hop IGP cost, the IGP costs are calculated relative to the specified location. In the SR OS implementation, the IGP costs from arbitrary ORR locations are calculated using OSPF, OSPFv3, IS-IS, or BGP-LS information in the TE DB.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

connect-retry *number*

Synopsis	BGP connect retry timer value

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Context	**configure** router *named-item-64* bgp group *named-item-64* connect-retry *number*
Tree	connect-retry
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

damp-peer-oscillations

Synopsis	Enable the **damp-peer-oscillations** context
Context	**configure** router *named-item-64* bgp group *named-item-64* damp-peer-oscillations
Tree	damp-peer-oscillations
Description	Commands in this context specify how long a BGP peer session remains in the idle state after an error causes the session to reset. In the idle state, BGP does not initiate or respond to attempts to establish a new session. Repeated errors that occur a short time after each session reset cause longer and longer hold times in the idle state. When unconfigured, command settings are inherited from the global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

error-interval *number*

Synopsis	Time after a reset that the session must be error-free
Context	**configure** router *named-item-64* bgp group *named-item-64* damp-peer-oscillations error-interval *number*
Tree	error-interval
Description	This command sets the interval of time after a reset, during which the session must be error-free in order to reset the penalty counter and return the idle hold time to the initial wait time.
Range	0 to 2048
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-hold-time

Synopsis	Enter the **idle-hold-time** context

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Context	**configure** router *named-item-64* bgp group *named-item-64* damp-peer-oscillations idle-hold-time
Tree	idle-hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-wait *number*

Synopsis	Time session remains in idle state after stabilization
Context	**configure** router *named-item-64* bgp group *named-item-64* damp-peer-oscillations idle-hold-time initial-wait *number*
Tree	initial-wait
Range	0 to 2048
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait *number*

Synopsis	Maximum session idle time after repeated instability
Context	**configure** router *named-item-64* bgp group *named-item-64* damp-peer-oscillations idle-hold-time max-wait *number*
Tree	max-wait
Range	1 to 2048
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Time that doubles after each repeated session failure
Context	**configure** router *named-item-64* bgp group *named-item-64* damp-peer-oscillations idle-hold-time second-wait *number*
Tree	second-wait
Description	This command defines the hold time that doubles after each repeated session failure that occurs in a short span of time.

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Range	1 to 2048
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *boolean*

Synopsis	Use BGP route damping to reduce route flap
Context	**configure** router *named-item-64* bgp group *named-item-64* damping *boolean*
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

def-recv-evpn-encap *keyword*

Synopsis	Default EVPN encapsulation type
Context	**configure** router *named-item-64* bgp group *named-item-64* def-recv-evpn-encap *keyword*
Tree	def-recv-evpn-encap
Description	This command specifies the encapsulation type that BGP uses when an EVPN route is received without the Encapsulation Extended Community. When unconfigured, the setting for this command is inherited from the BGP global-level configuration.
Options	mpls, vxlan
Introduced	25.3.R2
Platforms	SAR Gen 2

default-label-preference

Synopsis	Enter the **default-label-preference** context
Context	**configure** router *named-item-64* bgp group *named-item-64* default-label-preference
Tree	default-label-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

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ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** router *named-item-64* bgp group *named-item-64* default-label-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** router *named-item-64* bgp group *named-item-64* default-label-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

default-preference

Synopsis	Enter the **default-preference** context
Context	**configure** router *named-item-64* bgp group *named-item-64* default-preference
Tree	default-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** router *named-item-64* bgp group *named-item-64* default-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2

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Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** router *named-item-64* bgp group *named-item-64* default-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

default-route-target *boolean*

Synopsis	Send default RTC route (zero prefix length) to peers
Context	**configure** router *named-item-64* bgp group *named-item-64* default-route-target *boolean*
Tree	default-route-target
Description	When configured to **true**, this command sends the default RTC route (zero prefix length) toward the selected peers. When configured to **false**, a default RTC route is not sent.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* bgp group *named-item-64* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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dynamic-neighbor

Synopsis	Enter the **dynamic-neighbor** context
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor
Tree	dynamic-neighbor
Description	Commands in this context configure dynamic BGP sessions for a peer group.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor interface *interface-name*
Tree	interface
Description	Commands in this context configure an unnumbered base router network interface for dynamic neighbors. If this interface connects to a network with other BGP routers, sessions with the other routers can be set up automatically without explicitly configuring them as BGP neighbors. The interface must be IPv6 enabled, but because the interface is considered unnumbered, it does not require an IPv4 address or a global-unicast IPv6 address. The sessions are set up using IPv6 link-local addresses. The BGP unnumbered feature supports all address families that allow IPv6 link-local BGP next-hop addresses. This includes IPv4 with the use of RFC 8950 extensions. When an interface is added to the list of dynamic-neighbor interfaces, an outgoing connection attempt is initiated toward any directly connected router on the interface that announces itself using an ICMPv6 router advertisement message. The session attempt is unsuccessful if the peer type is not EBGP, the reported AS number of the peer does not match one of the allowed values, or the maximum session limit of the interface would be exceeded.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Name of the dynamic neighbor interface
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor interface *interface-name*
Tree	interface

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String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allowed-peer-as *string*

Synopsis	Allowed peer AS value or range of acceptable values
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor interface *interface-name* allowed-peer-as *string*
Tree	allowed-peer-as
Description	This command specifies a singular allowed peer AS value or a range of acceptable values in the format *n1*..*n*2. All values greater than or equal to *n1* and less than or equal to *n2*are acceptable. For example, if the acceptable peer AS numbers are 65001 to 65005 (range) and 62100 (singular value), configure this command to use a value of [65001..65005 62100].
String format	'allowed-peer-as' must be 4-byte decimal AS number or AS..AS range
Max. instances	32
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sessions *number*

Synopsis	Maximum number of dynamic sessions allowed
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor interface *interface-name* max-sessions *number*
Tree	max-sessions
Description	This command specifies the maximum number of dynamic sessions that are allowed to be set up on the interface as a result of accepting sessions from link-local addresses or initiating sessions by receiving IPv6 router advertisements.
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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match

Synopsis	Enter the **match** context
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor match
Tree	match
Description	Commands in this context configure match conditions for the dynamic neighbors.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **prefix** list instance
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor match prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Dynamic peer prefix for the group
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor match prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allowed-peer-as *string*

Synopsis	Allowed peer AS value or range of acceptable values
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor match prefix *(ipv4-prefix | ipv6-prefix)* allowed-peer-as *string*
Tree	allowed-peer-as
Description	This command specifies a singular allowed peer AS value or a range of acceptable values in the format *n1*..*n*2.

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	All values greater than or equal to *n1* and less than or equal to *n2*are acceptable. For example, if the acceptable peer AS numbers are 65001 to 65005 (range) and 62100 (singular value), configure this command to use a value of [65001..65005 62100].
String format	'allowed-peer-as' must be 4-byte decimal AS number or AS..AS range
Max. instances	32
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-neighbor-limit *number*

Synopsis	Maximum dynamic BGP sessions to accept from remote peer
Context	**configure** router *named-item-64* bgp group *named-item-64* dynamic-neighbor-limit *number*
Tree	dynamic-neighbor-limit
Description	This command configures the maximum number of dynamic BGP sessions that are accepted from remote peers associated with a specific peer group. If accepting a new dynamic session causes the group limit to be exceeded, the new session attempt is rejected and a Notification message is sent back to the remote peer. When unconfigured, the setting is inherited from the BGP global-level configuration.
Range	1 to 8192
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-default-reject-policy

Synopsis	Enable the **ebgp-default-reject-policy** context
Context	**configure** router *named-item-64* bgp group *named-item-64* ebgp-default-reject-policy
Tree	ebgp-default-reject-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Enable default reject export policy for external peers

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Context	**configure** router *named-item-64* bgp group *named-item-64* ebgp-default-reject-policy export *boolean*
Tree	export
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

import *boolean*

Synopsis	Enable default reject import policy for external peers
Context	**configure** router *named-item-64* bgp group *named-item-64* ebgp-default-reject-policy import *boolean*
Tree	import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-engineering

Synopsis	Enable the **egress-engineering** context
Context	**configure** router *named-item-64* bgp group *named-item-64* egress-engineering
Tree	egress-engineering
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BGP egress engineering
Context	**configure** router *named-item-64* bgp group *named-item-64* egress-engineering admin-state *keyword*
Tree	admin-state
Description	This command administratively enables or disables egress engineering for the BGP. If enabled, peer node SIDs and peer adjacency SIDs are advertised in BGP-LS.
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

egress-peer-engineering-label-unicast *boolean*

Synopsis	Generate EPE label-unicast routes for group
Context	**configure** router *named-item-64* bgp group *named-item-64* egress-peer-engineering-label-unicast *boolean*
Tree	egress-peer-engineering-label-unicast
Description	When configured to **true**, BGP generates a label-unicast route for each /32 or /128 prefix that corresponds to the BGP group address in the scope of the command. These routes can be advertised to other routers to recursively resolve unlabeled BGP routes for AS external destinations. They support the Egress Peer Engineering (EPE) use case.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-first-as *boolean*

Synopsis	Enforce the configured peer AS value in received routes
Context	**configure** router *named-item-64* bgp group *named-item-64* enforce-first-as *boolean*
Tree	enforce-first-as
Introduced	25.3.R2
Platforms	SAR Gen 2

error-handling

Synopsis	Enter the **error-handling** context
Context	**configure** router *named-item-64* bgp group *named-item-64* error-handling
Tree	error-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

update-fault-tolerance *boolean*

Synopsis	Tolerate non-critical errors in UPDATE messages

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Context	**configure** router *named-item-64* bgp group *named-item-64* error-handling update-fault-tolerance *boolean*
Tree	update-fault-tolerance
Description	When configured to **true**, non-critical errors are handled with treat-as-withdraw, attribute-discard, and other non-disruptive approaches that do not cause a session reset. Critical errors still trigger a session reset. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, all errors trigger a session reset.
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Enable the **export** context
Context	**configure** router *named-item-64* bgp group *named-item-64* export
Tree	export
Description	Commands in this context specify route policies that control the handling of outbound routes transmitted to certain peers. Route policies are configured in the **configure policy-options** context. When this context is unconfigured, the policy association for the group is inherited from the BGP global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	BGP export policy name
Context	**configure** router *named-item-64* bgp group *named-item-64* export policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies route policies that control the handling of outbound routes transmitted to certain peers. Each object in this command is either a policy logical expression or the name of a single policy. The objects are evaluated in the specified order to determine the modifications of each route and the final action to accept or reject the route. Only one of the objects referenced by the command can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).

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	Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end"," @variable@end", or "start@variable@".
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-nh-encoding

Synopsis	Enable the **extended-nh-encoding** context
Context	**configure** router *named-item-64* bgp group *named-item-64* extended-nh-encoding
Tree	extended-nh-encoding
Description	Commands in this context specify the address families enabled to advertise the capability to receive label IPv4 routes, VPN IPv4 routes, or IPv6 next hops from peers. The peers should not send such routes unless notification has been received of this capability. If the router receives an enabled address family route from a peer to which it did not advertise the necessary capability, the UPDATE message will be considered malformed. This causes either a session reset or treat-as-withdraw behavior depending on the error handling settings. When the context is unconfigured, command settings are inherited from the higher level BGP configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise encoding capability for IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* extended-nh-encoding ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise encoding capability for label-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* extended-nh-encoding label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise encoding capability for VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* extended-nh-encoding vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family

Synopsis	Enable the **family** context
Context	**configure** router *named-item-64* bgp group *named-item-64* family
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ls *boolean*

Synopsis	Advertise MP-BGP support for the BGP-LS address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family bgp-ls *boolean*
Tree	bgp-ls
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Advertise MP-BGP support for the EVPN address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-ipv6 *boolean*

Synopsis	Advertise support for the FlowSpec-IPv6 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family flow-ipv6 *boolean*
Tree	flow-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-vpn-ipv4 *boolean*

Synopsis	Advertise support for FlowSpec-VPN IPv4 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family flow-vpn-ipv4 *boolean*
Tree	flow-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-vpn-ipv6 *boolean*

Synopsis	Advertise support for FlowSpec-VPN IPv6 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family flow-vpn-ipv6 *boolean*
Tree	flow-vpn-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Add support for the IPv4 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the IPv6 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

l2-vpn *boolean*

Synopsis	Advertise MP-BGP support for the L2-VPN address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family l2-vpn *boolean*
Tree	l2-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise support for the label-IPv4 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family label-ipv4 *boolean*

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Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise support for the label-IPv6 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv4 *boolean*

Synopsis	Advertise support for the MCAST-IPv4 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Advertise support for the MCAST-IPv6 address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family mcast-ipv6 *boolean*
Tree	mcast-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv4 *boolean*

Synopsis	Advertise support for the IPv4 VPN MCAST address family

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Context	**configure** router *named-item-64* bgp group *named-item-64* family mcast-vpn-ipv4 *boolean*
Tree	mcast-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv6 *boolean*

Synopsis	Advertise support for the IPv6 VPN MCAST address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family mcast-vpn-ipv6 *boolean*
Tree	mcast-vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mdt-safi *boolean*

Synopsis	Advertise MP-BGP support for MDT-SAFI address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family mdt-safi *boolean*
Tree	mdt-safi
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ms-pw *boolean*

Synopsis	Advertise support for multi-segment PW address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family ms-pw *boolean*
Tree	ms-pw
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-target *boolean*

Synopsis	Advertise MP-BGP support for RT constraint routes
Context	**configure** router *named-item-64* bgp group *named-item-64* family route-target *boolean*
Tree	route-target
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy-ipv4 *boolean*

Synopsis	Advertise MP-BGP support for the SR-policy-IPv4 family
Context	**configure** router *named-item-64* bgp group *named-item-64* family sr-policy-ipv4 *boolean*
Tree	sr-policy-ipv4
Description	This command allows the router to advertise the capability for AFI1/SAFI73, which corresponds to BGP routes that encode a segment routing policy to an IPv4 destination.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy-ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the SR-policy-IPv6 family
Context	**configure** router *named-item-64* bgp group *named-item-64* family sr-policy-ipv6 *boolean*
Tree	sr-policy-ipv6
Description	This command allows the router to advertise the capability for AFI2/SAFI73, which corresponds to BGP routes that encode a segment routing policy to an IPv6 destination.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise MP-BGP support for IPv4 VPN address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family vpn-ipv4 *boolean*

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Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Advertise MP-BGP support for IPv6 VPN address family
Context	**configure** router *named-item-64* bgp group *named-item-64* family vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-external-failover *boolean*

Synopsis	Drop external BGP session immediately when link fails
Context	**configure** router *named-item-64* bgp group *named-item-64* fast-external-failover *boolean*
Tree	fast-external-failover
Description	When this command inherits a value of **true**, the router drops an external BGP session on a single-hop route immediately when the local interface goes down. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When configured to **false**, the BGP session remains up until the hold time expires.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart
Tree	graceful-restart
Description	Commands in this context configure BGP graceful restart helper procedures for address families included in the GR capabilities of both peers.

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When the context is unconfigured, the command settings are inherited from the BGP global-level configuration.

Introduced 25.3.R2

Platforms SAR Gen 2

gr-notification *boolean*

Synopsis Perform graceful restart procedures after NOTIFICATION

Context **configure** router *named-item-64* bgp group *named-item-64* graceful-restart gr-notification *boolean*

Tree gr-notification

Description When configured to **true**, the Graceful Restart capability sent by the router indicates support for NOTIFICATION messages. If the peer also supports this capability, the session is restarted gracefully (while preserving forwarding) if either peer sends a NOTIFICATION message due to some type of event or error.

When configured to **false**, NOTIFICATION messages are not supported.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

long-lived

Synopsis Enable the **long-lived** context

Context **configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived

Tree long-lived

Description Commands in this context configure the BGP Long-Lived Graceful-Restart (LLGR) procedures.

LLGR, known informally as BGP persistence, is an extension of BGP GR that allows a session to stay down for a longer period of time. During this time, learned routes are marked and re-advertised as stale but they can continue to be used as routes of last resort.

The LLGR handling of a session failure can be invoked immediately or it can be delayed until the end of the traditional GR restart window.

Introduced 25.3.R2

Platforms SAR Gen 2

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advertise-stale-to-all-neighbors *boolean*

Synopsis	Advertise stale routes to all BGP peers
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived advertise-stale-to-all-neighbors *boolean*
Tree	advertise-stale-to-all-neighbors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	Advertised long-lived stale time for LLGR routes
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Family type for family-specific LLGR configuration
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived family *keyword*
Tree	family

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Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, l2-vpn, flow-ipv4, route-target, flow-ipv6, label-ipv4, label-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time for family override
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived family *keyword* advertised-stale-time *number*
Tree	advertised-stale-time
Description	This command configures the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability with a family-specific override.
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived family *keyword* helper-override-stale-time *number*
Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This is a family-specific override value.
Range	0 to 16777216
Default	16777216
Introduced	25.3.R2
Platforms	SAR Gen 2

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forwarding-bits-set *keyword*

Synopsis	BGP LLGR forwarding-bit behavior for address family
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived forwarding-bits-set *keyword*
Tree	forwarding-bits-set
Description	This command determines the setting of the F bit in the GR and LLGR capabilities advertised by the router. When the F bit is set for an address family, it indicates that the advertising router is able to preserve forwarding state for the routes of that address family across the last restart. When the session is re-established after a restart and the F bit is not set, all stale routes from the peer are immediately removed for the corresponding address family. This command allows the F bit to be set for all address families or only for non-forwarding address families (L2-VPN, route target, flow-IPv4, and flow-IPv6).
Options	none, all, non-fwd
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-restart-time *number*

Synopsis	Locally-configured override for restart time
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived helper-override-restart-time *number*
Tree	helper-override-restart-time
Description	This command overrides the restart time advertised by a peer (in its GR capability) with a locally-configured value. This override applies only to AFI/SAFI that were included in the GR capability of the peer. The restart-time is always zero for AFI/SAFI not included in the GR capability. This command is useful if the local router wants to force the LLGR phase to begin after a set time for all protected AFI/SAFI.
Range	0 to 4095
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived helper-override-stale-time *number*

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Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability except for any AFI/SAFI with a family-specific override.
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

without-no-export *boolean*

Synopsis	Advertise LLGR stale routes to non-LLGR peers
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart long-lived without-no-export *boolean*
Tree	without-no-export
Description	When configured to **true**, LLGR stale routes can be advertised to any peer (EBGP or IBGP) that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0. When configured to **false**, LLGR stale routes are not advertised to any EBGP peer that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0 and a NO_EXPORT standard community is automatically added to the routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

restart-time *number*

Synopsis	Restart time advertised by GR capability
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart restart-time *number*
Tree	restart-time
Range	0 to 4095
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

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stale-routes-time *number*

Synopsis	Maximum time to maintain routes after graceful restart
Context	**configure** router *named-item-64* bgp group *named-item-64* graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Default	360
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** router *named-item-64* bgp group *named-item-64* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-hold-time *number*

Synopsis	Minimum hold time between successive messages
Context	**configure** router *named-item-64* bgp group *named-item-64* hold-time minimum-hold-time *number*
Tree	minimum-hold-time
Description	This command specifies the minimum hold time that is accepted for the session. If a peer proposes a hold time lower than this value, the session attempt is rejected. When unconfigured, the command value is inherited from the BGP global-level setting.
Range	0 | 3 to 65536
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Maximum time BGP waits between successive messages

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Context	**configure** router *named-item-64* bgp group *named-item-64* hold-time seconds *number*
Tree	seconds
Description	This command configures the maximum time BGP waits between successive messages (either keepalive or update) from its peer before closing the connection. Although the implementation allows setting the keepalive timer at the BGP group level times separately, the configured keepalive timer is overridden by this value under the following circumstances. • If the specified hold time is less than the configured keepalive time, the operational keepalive time is set to a third of the hold-time; the configured keepalive time is not changed. • If the hold time is set to zero, the operational value of the keepalive time is set to zero; the configured keepalive time is not changed. The connection with the peer is up permanently and no keepalive packets are sent to the peer. When unconfigured, the command setting is inherited from the BGP global-level configuration.
Range	0 | 3 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enable the **import** context
Context	**configure** router *named-item-64* bgp group *named-item-64* import
Tree	import
Description	Commands in this context specify route policies that control the handling of inbound routes received from certain peers. Route policies are configured in the **configure policy-options** context. When this context is unconfigured, the policy association for the group is inherited from the BGP global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	BGP import policy name
Context	**configure** router *named-item-64* bgp group *named-item-64* import policy *(policy-expr-string | string)*
Tree	policy

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Description	This command specifies route policies that control the handling of inbound routes received from certain peers. Each object in this command is either a policy logical expression or the name of a single policy. The objects are evaluated in the specified order to determine the modifications of each route and the final action to accept or reject the route. Only one of the objects referenced by the command can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end"," @variable@end", or "start@variable@".
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-send-delay-zero *boolean*

Synopsis	Send BGP updates as soon as the session comes up
Context	**configure** router *named-item-64* bgp group *named-item-64* initial-send-delay-zero *boolean*
Tree	initial-send-delay-zero
Description	When configured to **true**, BGP updates are sent as soon as the session comes up. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, BGP waits to send UPDATE messages for the minimum route advertisement time after a session is established.
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive *number*

Synopsis	Time after which the BGP KEEPALIVE message is sent
Context	**configure** router *named-item-64* bgp group *named-item-64* keepalive *number*

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Tree	keepalive
Description	This command configures the BGP keepalive timer value. A keepalive message is sent every time this timer expires. This value is generally one-third of the hold time interval configured in the **hold-time seconds** context. Although the implementation allows this keepalive value and the hold time interval to be independently set, under the following circumstances, the configured keepalive value is overridden by the hold time interval value: • If the specified keepalive value is greater than the configured hold time, the specified keepalive value is ignored and the timer value is set to one third of the current hold time value. • If the specified hold time interval is less than the configured keepalive value, the keepalive value is reset to one third of the specified hold time interval. • If the hold time interval is set to zero, the configured keepalive value is ignored. This means that the connection with the peer is up permanently and no keepalive packets are sent to the peer. When unconfigured, the command inherits the BGP global-level setting.
Range	0 to 21845
Introduced	25.3.R2
Platforms	SAR Gen 2

label-preference *number*

Synopsis	Route preference for routes from labeled-unicast peers
Context	**configure** router *named-item-64* bgp group *named-item-64* label-preference *number*
Tree	label-preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

link-bandwidth

Synopsis	Enter the **link-bandwidth** context
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth
Tree	link-bandwidth
Description	Commands in this context specify the handling of the Link Bandwidth Extended Community attached to specific BGP routes. When all used multipaths of an IP prefix correspond to BGP routes with a Link Bandwidth EC, the datapath is programmed to use weighted ECMP across the BGP next hops in proportion to the bandwidth values.

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Introduced	25.3.R2
Platforms	SAR Gen 2

accept-from-ebgp

Synopsis	Enter the **accept-from-ebgp** context
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp
Tree	accept-from-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes

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Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth accept-from-ebgp vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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add-to-received-ebgp

Synopsis	Enter the **add-to-received-ebgp** context
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp
Tree	add-to-received-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth add-to-received-ebgp vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregate-used-paths

Synopsis	Enter the **aggregate-used-paths** context

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Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths
Tree	aggregate-used-paths
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth aggregate-used-paths vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-to-ebgp

Synopsis	Enter the **send-to-ebgp** context
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp
Tree	send-to-ebgp
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes

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Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* link-bandwidth send-to-ebgp vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address *(ipv4-address-no-zone | ipv6-address-no-zone | interface-name)*

Synopsis	Local IP address used when communicating with BGP peers
Context	**configure** router *named-item-64* bgp group *named-item-64* local-address *(ipv4-address-no-zone | ipv6-address-no-zone | interface-name)*
Tree	local-address
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-as

Synopsis	Enter the **local-as** context
Context	**configure** router *named-item-64* bgp group *named-item-64* local-as
Tree	local-as
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Local (or virtual) BGP AS number
Context	**configure** router *named-item-64* bgp group *named-item-64* local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

prepend-global-as *boolean*

Synopsis	Prepend global ASN when advertising routes to BGP peer
Context	**configure** router *named-item-64* bgp group *named-item-64* local-as prepend-global-as *boolean*
Tree	prepend-global-as
Description	When configured to **true**, the global ASN is added to the AS_PATH attribute in outbound routes sent to the peer. When configured to **false**, the global ASN is not included in the AS_PATH attribute.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

private *boolean*

Synopsis	Hide the local ASN in sent paths learned from peering
Context	**configure** router *named-item-64* bgp group *named-item-64* local-as private *boolean*
Tree	private

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Description	When configured to **true**, the local AS number is only advertised to peers that use the local ASN for establishing BGP peering sessions. When configured to **false**, the local ASN is advertised to all peers, including those that can use the global ASN for establishing BGP peering sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Default local preference if not in incoming routes
Context	**configure** router *named-item-64* bgp group *named-item-64* local-preference *number*
Tree	local-preference
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect *keyword*

Synopsis	Strategy for loop detection in the AS path
Context	**configure** router *named-item-64* bgp group *named-item-64* loop-detect *keyword*
Tree	loop-detect
Options	drop-peer, ignore-loop, off, discard-route
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect-threshold *number*

Synopsis	Threshold for the global ASN in a received AS path
Context	**configure** router *named-item-64* bgp group *named-item-64* loop-detect-threshold *number*
Tree	loop-detect-threshold
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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med-out *(number | keyword)*

Synopsis	Default MED attribute value to advertise to peers
Context	**configure** router *named-item-64* bgp group *named-item-64* med-out *(number | keyword)*
Tree	med-out
Max. range	0 to 4294967295
Options	igp-cost
Introduced	25.3.R2
Platforms	SAR Gen 2

min-route-advertisement *number*

Synopsis	Minimum time before a prefix can be advertised to peer
Context	**configure** router *named-item-64* bgp group *named-item-64* min-route-advertisement *number*
Tree	min-route-advertisement
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multihop *number*

Synopsis	TTL in IP packet headers for EBGP peers multi-hops away
Context	**configure** router *named-item-64* bgp group *named-item-64* multihop *number*
Tree	multihop
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multipath-eligible *boolean*

Synopsis	Allow routes from group peers in multipath eligibility
Context	**configure** router *named-item-64* bgp group *named-item-64* multipath-eligible *boolean*
Tree	multipath-eligible
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-self *boolean*

Synopsis	Advertise routes with local address as next-hop address
Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-self *boolean*
Tree	next-hop-self
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-unchanged

Synopsis	Enter the **next-hop-unchanged** context
Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-unchanged
Tree	next-hop-unchanged
Description	Commands in this context specify the IP address families that allow unchanged BGP next-hops when sending BGP routes to peers in the group.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Advertise EVPN routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-unchanged evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise label-IPv4 routes with unchanged BGP next hop

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Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-unchanged label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise label-IPv6 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-unchanged label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise VPN IPv4 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-unchanged vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Advertise VPN IPv6 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp group *named-item-64* next-hop-unchanged vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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origin-validation

Synopsis	Enter the **origin-validation** context
Context	**configure** router *named-item-64* bgp group *named-item-64* origin-validation
Tree	origin-validation
Description	Commands in this context configure the marking of every inbound IPv4, IPv6, labeled IPv4, and labeled IPv6 route from the BGP peer with one of the following origin validation states: • Valid (0) • Not-Found (1) • Invalid (2) The configurations apply to all types of BGP peers, but generally should be applied only to EBGP peers and groups that contain only EBGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* origin-validation ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* origin-validation ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* origin-validation label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Enable support for labeled-unicast IPv6 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* origin-validation label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound-route-filtering

Synopsis	Enable the **outbound-route-filtering** context
Context	**configure** router *named-item-64* bgp group *named-item-64* outbound-route-filtering
Tree	outbound-route-filtering
Description	Commands in this context configure the send and receive capabilities for Outbound Route Filtering (ORF). When this context is unconfigured, the group command settings are inherited from the BGP global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-community

Synopsis	Enable the **extended-community** context

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Context	**configure** router *named-item-64* bgp group *named-item-64* outbound-route-filtering extended-community
Tree	extended-community
Description	Commands in this context configure the ORF send and receive capabilities based on Extended Communities. When this context is unconfigured, the command settings are inherited from the global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-orf *boolean*

Synopsis	Negotiate with peer to accept BGP ORF filters
Context	**configure** router *named-item-64* bgp group *named-item-64* outbound-route-filtering extended-community accept-orf *boolean*
Tree	accept-orf
Description	When configured to **true**, the receive capability in the BGP ORF is negotiated with a peer and ORF filters can be accepted from peers. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the accept capability in the BGP ORF is removed and any existing ORF filters that are currently in place are cleared.
Introduced	25.3.R2
Platforms	SAR Gen 2

send-orf

Synopsis	Enable the **send-orf** context
Context	**configure** router *named-item-64* bgp group *named-item-64* outbound-route-filtering extended-community send-orf
Tree	send-orf
Description	Commands in this context allow BGP to negotiate the send capability in the ORF negotiation with a peer. The send capability also causes the router to send a community filter, prefix filter, or AS path filter configured as an inbound filter on the BGP session to its peer as an ORF Action ADD. When this context is unconfigured, the command settings are inherited from the BGP global-level configuration.
Introduced	25.3.R2

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Platforms	SAR Gen 2

route-target [community-name] *named-item*

Synopsis	Add a list entry for **route-target**
Context	**configure** router *named-item-64* bgp group *named-item-64* outbound-route-filtering extended-community send-orf route-target *named-item*
Tree	route-target
Introduced	25.3.R2
Platforms	SAR Gen 2

[**community-name**] *named-item*

Synopsis	Route target community name
Context	**configure** router *named-item-64* bgp group *named-item-64* outbound-route-filtering extended-community send-orf route-target *named-item*
Tree	route-target
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Enable passive mode for BGP communication
Context	**configure** router *named-item-64* bgp group *named-item-64* passive *boolean*
Tree	passive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu-discovery *boolean*

Synopsis	Enable Path MTU Discovery
Context	**configure** router *named-item-64* bgp group *named-item-64* path-mtu-discovery *boolean*

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Tree	path-mtu-discovery
Description	When configured to **true**, Path MTU Discovery (PMTUD) is enabled for the associated TCP connections. When set to **true**, PMTUD is activated toward an IPv4 BGP neighbor and the Don't Fragment (DF) bit is set in the IP header of all IPv4 packets sent to the peer. If any device along the path toward the peer cannot forward the packet because the IP MTU of the interface is smaller than the IP packet size, this device drops the packet and sends an ICMP or ICMPv6 error message encoding the interface MTU. When the router receives the ICMP or ICMPv6 message, it lowers the TCP maximum segment size limit from the previous value so that the IP MTU constraint can be accommodated. When configured to **false** and there is no TCP MSS configuration that can be associated with a BGP neighbor (in either the BGP configuration or the first hop IP interface configuration), the router advertises a value of only 1024 bytes as the TCP MSS option value, limiting received TCP segments to that size.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-as *number*

Synopsis	Peer AS number
Context	**configure** router *named-item-64* bgp group *named-item-64* peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-tracking *boolean*

Synopsis	Enable BGP peer tracking
Context	**configure** router *named-item-64* bgp group *named-item-64* peer-ip-tracking *boolean*
Tree	peer-ip-tracking
Description	When configured to **true**, this command enables BGP peer tracking. Peer tracking should be used with caution. Peer tracking can tear a session down even if the loss of connectivity turns out to be short-lived (for example, while the IGP protocol is re-converging). Next-hop tracking, which is always enabled, handles temporary connectivity issues more effectively. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, peer tracking is disabled.

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Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference for routes learned from all peers
Context	**configure** router *named-item-64* bgp group *named-item-64* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-limit [family] *keyword*

Synopsis	Enter the **prefix-limit** list instance
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword*
Tree	prefix-limit
Description	Commands in this context limit the number of BGP routes per address family received from a BGP peer and define the actions when crossing the configured maximum.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family**] *keyword*

Synopsis	Address family to which the limit applies
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword*
Tree	prefix-limit
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4, sr-policy-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hold-excess *number*

Synopsis	Percentage of maximum routes to install in route table
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword* hold-excess *number*
Tree	hold-excess
Description	This command specifies the percentage of maximum routes that are allowed to be installed in the route table for the configured address family. If a peer within scope of the configuration exceeds the limit, the overflow routes are held in the BGP RIB as inactive routes and are ineligible for forwarding and advertisement to other peers. If the **post-import** command is configured to **true**, only routes not rejected by import policies count toward the limit. A BGP route in an overflow state is reconsidered for activation and reinstallation when an UPDATE message is received for the route. This command is mutually exclusive with the **idle-timeou**t and **log-only** commands.
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *number*

Synopsis	Time BGP peering remains idle before reconnecting
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword* idle-timeout *number*
Tree	idle-timeout
Description	This command configures the time in minutes before a BGP peer is automatically re-established after reaching the prefix limit. When unconfigured, the BGP peer stays down until the operator performs a reset. This command and **log-only** cannot be configured simultaneously.
Range	1 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Send warning message at threshold instead of take-down
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword* log-only *boolean*

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Tree	log-only
Description	When configured to **true**, the router disables the BGP session from being taken down upon reaching the prefix limit. Instead, only a warning message is sent when the limit is reached. A warning message is also sent when the configured threshold percentage of the limit is reached. This command and **idle-timeout** cannot be configured simultaneously. When configured to **false**, the router generates a log event and takes the BGP session down upon reaching the prefix limit.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum *number*

Synopsis	Maximum number of routes to be learned from a peer
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword* maximum *number*
Tree	maximum
Description	This command configures the maximum number of BGP routes of the specified address family that can be received from a peer before administrative action is taken. When **log-only** is unconfigured, the BGP session is taken down whenever the limit of any family is exceeded even if the limits of the other family has not been exceeded.
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

post-import *boolean*

Synopsis	Apply limit only to routes accepted by import policies
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword* post-import *boolean*
Tree	post-import
Description	When configured to **true**, the system limits the number of routes that are accepted by import policies. Routes rejected by import policies are not counted against the configured limit. When configured to **false**, the system limits the number of routes to all routes received from the peer.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Percentage threshold that triggers a warning message
Context	**configure** router *named-item-64* bgp group *named-item-64* prefix-limit *keyword* threshold *number*
Tree	threshold
Range	1 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

remove-private

Synopsis	Enable the **remove-private** context
Context	**configure** router *named-item-64* bgp group *named-item-64* remove-private
Tree	remove-private
Introduced	25.3.R2
Platforms	SAR Gen 2

limited *boolean*

Synopsis	Remove private ASNs up to first public ASN encountered
Context	**configure** router *named-item-64* bgp group *named-item-64* remove-private limited *boolean*
Tree	limited
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *boolean*

Synopsis	Replace private ASN with global ASN before advertising

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Context	**configure** router *named-item-64* bgp group *named-item-64* remove-private replace *boolean*
Tree	replace
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

skip-peer-as *boolean*

Synopsis	Keep private ASN if it is the same as the BGP peer ASN
Context	**configure** router *named-item-64* bgp group *named-item-64* remove-private skip-peer-as *boolean*
Tree	skip-peer-as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

selective-label-ipv4-install *boolean*

Synopsis	Enable selective download for bgp label-ipv4 routes
Context	**configure** router *named-item-64* bgp group *named-item-64* selective-label-ipv4-install *boolean*
Tree	selective-label-ipv4-install
Introduced	25.3.R2
Platforms	SAR Gen 2

send-communities

Synopsis	Enter the **send-communities** context
Context	**configure** router *named-item-64* bgp group *named-item-64* send-communities
Tree	send-communities
Introduced	25.3.R2
Platforms	SAR Gen 2

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extended *boolean*

Synopsis	Advertise the Extended Communities attribute to peers
Context	**configure** router *named-item-64* bgp group *named-item-64* send-communities extended *boolean*
Tree	extended
Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP extended communities are sent to peers in the Extended Communities attribute. When configured to **false**, all extended communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

large *boolean*

Synopsis	Advertise the Large Communities attribute to peers
Context	**configure** router *named-item-64* bgp group *named-item-64* send-communities large *boolean*
Tree	large
Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP large communities are sent to peers in the Large Communities attribute. When configured to **false**, all large communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Advertise the Communities attribute to peers
Context	**configure** router *named-item-64* bgp group *named-item-64* send-communities standard *boolean*
Tree	standard
Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**.

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When this command inherits a value of **true**, BGP standard communities are sent to peers in the Communities attribute.

When configured to **false**, all standard communities are removed from all routes advertised to BGP peers.

Introduced	25.3.R2
Platforms	SAR Gen 2

send-default

Synopsis	Enable the **send-default** context
Context	**configure** router *named-item-64* bgp group *named-item-64* send-default
Tree	send-default
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policy name
Context	**configure** router *named-item-64* bgp group *named-item-64* send-default export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Generate and advertise an IPv4 default route (0/0)
Context	**configure** router *named-item-64* bgp group *named-item-64* send-default ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *boolean*

Synopsis	Generate and advertise an IPv6 default route (::/0)
Context	**configure** router *named-item-64* bgp group *named-item-64* send-default ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Prevent routes being reflected back to best-route peer
Context	**configure** router *named-item-64* bgp group *named-item-64* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split-horizon. This command prevents routes from being reflected back to a peer that sends the best route. It applies to routes of all address families and to any type of sending peer; confed-EBGP, EBGP and IBGP. Enabling the split-horizon functionality may have a detrimental impact on peer and route scaling and should only be used when absolutely necessary. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the use of split-horizon is disabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

static-group *boolean*

Synopsis	Use group for static peers
Context	**configure** router *named-item-64* bgp group *named-item-64* static-group *boolean*
Tree	static-group
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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tcp-mss *(number | keyword)*

Synopsis	TCP maximum segment size override
Context	**configure** router *named-item-64* bgp group *named-item-64* tcp-mss *(number | keyword)*
Tree	tcp-mss
Description	This command configures an override for the TCP maximum segment size to use with a specific peer or set of peers (depending on the scope of the command). The configured value controls two properties of the TCP connection as follows: TCP MSS option - The router advertises the TCP MSS option value in the TCP SYN packet it sends as part of the 3-way handshake. The advertised value may be lower than the configured value, depending on the IP MTU of the first hop IP interface. The peers must abide by this value when sending TCP segments to the local router. TCP maximum segment size - The actual transmitted size may be lower than the configured value, depending on the TCP MSS option value signaled by the peers, the effect of path MTU discovery, or other factors.
Range	384 to 9746
Options	ip-stack
Introduced	25.3.R2
Platforms	SAR Gen 2

third-party-nexthop *boolean*

Synopsis	Apply third-party next-hop processing to EBGP peers
Context	**configure** router *named-item-64* bgp group *named-item-64* third-party-nexthop *boolean*
Tree	third-party-nexthop
Description	When configured to **true**, this command enables the router to send third-party next hop to EBGP peers in the same subnet as the source peer. The address family of the transport must match the address family of the route. When an IPv4 or IPv6 route is received from one EBGP peer and advertised to another EBGP peer in the same IP subnet, the BGP next hop is left unchanged. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, third-party next-hop processing is disabled and the next hop carries the IP address of the interface used to establish the TCP connection to the peer.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ttl-security *number*

Synopsis	Minimum TTL value for an incoming BGP packet
Context	**configure** router *named-item-64* bgp group *named-item-64* ttl-security *number*
Tree	ttl-security
Description	This command configures the minimum TTL value that BGP accepst from an incoming packet. A packet with a TTL value less than the minimum configured TTL value is discarded.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	BGP peer type
Context	**configure** router *named-item-64* bgp group *named-item-64* type *keyword*
Tree	type
Options	internal, external
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-apply-export *boolean*

Synopsis	Apply base-instance BGP export policies to VPN routes
Context	**configure** router *named-item-64* bgp group *named-item-64* vpn-apply-export *boolean*
Tree	vpn-apply-export
Description	When configured to **true**, base-instance BGP export route policies are applied to VPN-IPv4/6, MVPN-IPv4/6, L2-VPN, MDT-SAFI, MCAST-VPN-IPv4, and EVPN routes. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the export policies are not applied.
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpn-apply-import *boolean*

Synopsis	Apply base-instance BGP import policies to VPN routes
Context	**configure** router *named-item-64* bgp group *named-item-64* vpn-apply-import *boolean*
Tree	vpn-apply-import
Description	When configured to **true**, base-instance BGP import route policies are applied to VPN-IPv4/6, MVPN-IPv4/6, L2-VPN, MDT-SAFI, MCAST-VPN-IPv4, and EVPN routes. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the import policies are not applied.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** router *named-item-64* bgp hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-hold-time *number*

Synopsis	Minimum hold time between successive messages
Context	**configure** router *named-item-64* bgp hold-time minimum-hold-time *number*
Tree	minimum-hold-time
Description	This command specifies the minimum hold time that is accepted for the session. If a peer proposes a hold time lower than this value, the session attempt is rejected.
Range	0 | 3 to 65535
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Maximum time BGP waits between successive messages

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Context	**configure** router *named-item-64* bgp hold-time seconds *number*
Tree	seconds
Description	This command configures the maximum time BGP waits between successive messages (either keepalive or update) from its peer before closing the connection. Although the implementation allows setting the keepalive timer at the BGP global level times separately, the configured keepalive timer is overridden by this value under the following circumstances. • If the specified hold time is less than the configured keepalive time, the operational keepalive time is set to a third of the hold-time; the configured keepalive time is not changed. • If the hold time is set to zero, the operational value of the keepalive time is set to zero; the configured keepalive time is not changed. The connection with the peer is up permanently and no keepalive packets are sent to the peer.
Range	0 | 3 to 65535
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp-multipath *boolean*

Synopsis	Enable IBGP multipath load balancing
Context	**configure** router *named-item-64* bgp ibgp-multipath *boolean*
Tree	ibgp-multipath
Description	When configured to **true**, this command enables IBGP multipath load balancing when adding BGP routes to the route table if the route resolving the BGP next hop offers multiple next hops. When configured to **false**, this command disables IBGP multipath load balancing.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enable the **import** context
Context	**configure** router *named-item-64* bgp import
Tree	import

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Description	Commands in this context specify route policies that control the handling of inbound routes received from certain peers. Route policies are configured in the **configure policy-options** context. When no import policies are specified in this context, BGP routes are accepted by default.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	BGP import policy name
Context	**configure** router *named-item-64* bgp import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies a list of objects, where each object is either a policy logical expression or the name of a single policy. The objects are evaluated in the specified order to determine the modifications of each route and the final action to accept or reject the route. Only one of the objects referenced by this command is allowed to be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end"," @variable@end", or"start@variable@".
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-send-delay-zero *boolean*

Synopsis	Send BGP updates as soon as session comes up
Context	**configure** router *named-item-64* bgp initial-send-delay-zero *boolean*
Tree	initial-send-delay-zero

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

inter-as-vpn *boolean*

Synopsis	Allow advertisement of VPN routes across AS boundaries
Context	**configure** router *named-item-64* bgp inter-as-vpn *boolean*
Tree	inter-as-vpn
Description	When configured to **true**, VPNs can exchange routes across AS boundaries, providing model B connectivity. When configured to **false**, ASBRs are prevented from advertising VPN routes to peers in other ASs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive *number*

Synopsis	Time after which the BGP KEEPALIVE message is sent
Context	**configure** router *named-item-64* bgp keepalive *number*
Tree	keepalive
Range	0 to 21845
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

label-allocation

Synopsis	Enter the **label-allocation** context
Context	**configure** router *named-item-64* bgp label-allocation
Tree	label-allocation
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv6

Synopsis	Enter the **label-ipv6** context
Context	**configure** router *named-item-64* bgp label-allocation label-ipv6
Tree	label-ipv6
Description	This command controls the label allocation behavior for labeled unicast IPv6 routes. The label options are **explicit-null** and **normal**.
Introduced	25.3.R2
Platforms	SAR Gen 2

explicit-null *boolean*

Synopsis	Apply advertised label and associated programming rules
Context	**configure** router *named-item-64* bgp label-allocation label-ipv6 explicit-null *boolean*
Tree	explicit-null
Description	When configured to **true**, this command uses the advertised label and associated programming rules on this instance of BGP. The following applies: • The router is required to act as the BGP next-hop of a label-unicast IPv6 route that it is advertising. It sets the BGP label value to IPv6 explicit null (value 2), forcing a POP behavior for received packets. • The received label-unicast IPv6 routes never create tunnels in TTM that can be used to resolve other BGP routes (with an IPv6 next-hop). • A received label-unicast IPv6 route can be resolved by a label-ipv4 BGP tunnel that is transported over a stacked tunnel (SR-TE LSP or LDPoRSVP LSP). When configured to **false**, advertised label IPv6 programming rules are not used. The following applies • When the router is required to act as the BGP next-hop of a label-unicast IPv6 route that it is advertising, it sets the BGP label value to a proper value in the dynamic label range and programs a POP or SWAP operation for that label, depending on the origin of the route and various import policy actions that could apply to the route. • Received label-unicast IPv6 routes that have a prefix length of 128 bits are automatically installed in TTM so that they can be used to resolve other (non-labeled-unicast) BGP routes (with an IPv6 next-hop). • A received label-unicast IPv6 route cannot be resolved by a label-ipv4 BGP tunnel that is transported over a stacked tunnel (SR-TE LSP or LDPoRSVP LSP). • The label-ipv6 routes used for ECMP toward an IPv6 destination cannot be a mix of routes with regular label values and routes with special (IPv6 explicit null) label values. Changes in the value of this leaf do not cause the BGP sessions of the base router to reset.

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

label-preference *number*

Synopsis	Route preference for routes from labeled-unicast peers
Context	**configure** router *named-item-64* bgp label-preference *number*
Tree	label-preference
Range	1 to 255
Default	170
Introduced	25.3.R2
Platforms	SAR Gen 2

link-state-route-export *boolean*

Synopsis	Allow the export of the TED NLRI database
Context	**configure** router *named-item-64* bgp link-state-route-export *boolean*
Tree	link-state-route-export
Description	When configured to **true**, this command allows BGP to export link-state information to BGP neighbors. When configured to **false**, link-state information is not exported.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

link-state-route-import *boolean*

Synopsis	Allow the import of the TED NLRI database
Context	**configure** router *named-item-64* bgp link-state-route-import *boolean*
Tree	link-state-route-import
Description	When configured to **true**, this command enables the import of link-state information into the BGP-LS address family for advertisement to other BGP neighbors. When configured to **false**, this command disables the import of link-state information.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

local-as

Synopsis	Enter the **local-as** context
Context	**configure** router *named-item-64* bgp local-as
Tree	local-as
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Local (or virtual) BGP AS number
Context	**configure** router *named-item-64* bgp local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

prepend-global-as *boolean*

Synopsis	Prepend global AS when advertising routes to BGP peer
Context	**configure** router *named-item-64* bgp local-as prepend-global-as *boolean*
Tree	prepend-global-as
Description	When configured to **true**, the global ASN is added to the AS_PATH attribute in outbound routes sent to the peer. When configured to **false**, the global ASN is hidden in paths announced to the EBGP peer.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

private *boolean*

Synopsis	Hide the local ASN in sent paths learned from peering

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Context	**configure** router *named-item-64* bgp local-as private *boolean*
Tree	private
Description	When configured to **true**, the local ASN is hidden in paths learned from the peering. When configured to **false**, the local ASN is advertised to all peers, including those that can use the global ASN for establishing BGP peering sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Default local preference if not in incoming routes
Context	**configure** router *named-item-64* bgp local-preference *number*
Tree	local-preference
Max. range	0 to 4294967295
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect *keyword*

Synopsis	Strategy for loop detection in the AS path
Context	**configure** router *named-item-64* bgp loop-detect *keyword*
Tree	loop-detect
Options	drop-peer, ignore-loop, off, discard-route
Default	ignore-loop
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect-threshold *number*

Synopsis	Threshold for the global ASN in a received AS path
Context	**configure** router *named-item-64* bgp loop-detect-threshold *number*
Tree	loop-detect-threshold
Range	0 to 15

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Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

med-out *(number | keyword)*

Synopsis	Default MED attribute value to advertise to peers
Context	**configure** router *named-item-64* bgp med-out *(number | keyword)*
Tree	med-out
Max. range	0 to 4294967295
Options	igp-cost
Introduced	25.3.R2
Platforms	SAR Gen 2

min-route-advertisement *number*

Synopsis	Minimum time before a prefix can be advertised to peer
Context	**configure** router *named-item-64* bgp min-route-advertisement *number*
Tree	min-route-advertisement
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

mp-bgp-keep *boolean*

Synopsis	Keep rejected VPN-IP routes in RIB-IN
Context	**configure** router *named-item-64* bgp mp-bgp-keep *boolean*
Tree	mp-bgp-keep
Description	When configured to **true**, the RIB-IN retains all MP-BGP routes, including VPN routes rejected by import policies or not imported by any services. As a result, sending Route Refresh messages is not required when an import policy changes. When configured to **false**, these VPN routes are deleted from the RIB-IN.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

multihop *number*

Synopsis	TTL in IP packet headers for EBGP peers multi-hops away
Context	**configure** router *named-item-64* bgp multihop *number*
Tree	multihop
Description	This command configures the Time to Live (TTL) value entered in the IP header of packets sent to an EBGP peer multiple hops away. This command applies only to EBGP.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multipath

Synopsis	Enter the **multipath** context
Context	**configure** router *named-item-64* bgp multipath
Tree	multipath
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Maximum multipaths per prefix for EBGP learned routes
Context	**configure** router *named-item-64* bgp multipath ebgp *number*
Tree	ebgp
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp multipath family *keyword*
Tree	family

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family for which multipath selection
Context	**configure** router *named-item-64* bgp multipath family *keyword*
Tree	family
Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, label-ipv4, label-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Maximum multipaths when best path is EBGP learned route
Context	**configure** router *named-item-64* bgp multipath family *keyword* ebgp *number*
Tree	ebgp
Description	This command configures the maximum number of multipaths per prefix or NLRI when the best path is an EBGP learned route. The limit configured using this command overrides the limit configured in the **max-paths** command. If the best path is an EBGP learned route, and this command is set to 1, multipaths are disabled.
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Maximum multipaths when best path is IBGP learned route
Context	**configure** router *named-item-64* bgp multipath family *keyword* ibgp *number*
Tree	ibgp
Description	This command configures the maximum number of multipaths per prefix or NLRI when the best path is an IBGP learned route. The limit configured using this command overrides the limit configured in the **max-paths** command. If the best path is an IBGP learned route and this command is set to 1, multipaths are disabled.
Range	1 to 64
Introduced	25.3.R2

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Platforms SAR Gen 2

max-paths *number*

Synopsis Maximum number of multipaths per prefix or NLRI

Context **configure** router *named-item-64* bgp multipath family *keyword* max-paths *number*

Tree max-paths

Description This command configures the maximum number of multipaths per prefix or NLRI for the IP family option specified using the **family** command.

Consider the following when configuring this command:

- If the best path is an EBGP-learned route and the **ebgp** command is configured, the limit configured in the **ebgp** command overrides the limit configured in this command.
- If the best path is an IBGP-learned route and the **ibgp** command is configured, the limit configured in the **ibgp** command overrides the limit configured in this command.
- If the best path is an EBGP-learned route and the **ebgp** command is not configured, and this command is configured to 1, multipaths are disabled.
- If the best path is an IBGP-learned route and the **ibgp** command is not configured, and this command is configured to 1, multipaths are disabled.

Range 1 to 64

Introduced 25.3.R2

Platforms SAR Gen 2

restrict *keyword*

Synopsis AS path restriction for the non-best path

Context **configure** router *named-item-64* bgp multipath family *keyword* restrict *keyword*

Tree restrict

Options same-as-path-length, same-neighbor-as, exact-as-path

Default same-as-path-length

Introduced 25.3.R2

Platforms SAR Gen 2

unequal-cost *boolean*

Synopsis Ignore differences in the next-hop cost for multipath

Context **configure** router *named-item-64* bgp multipath family *keyword* unequal-cost *boolean*

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Tree	unequal-cost
Description	When configured to **true**, BGP ignores differences in the next-hop cost when determining eligible multipaths.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Maximum multipaths per prefix for IBGP learned routes
Context	**configure** router *named-item-64* bgp multipath ibgp *number*
Tree	ibgp
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

max-paths *number*

Synopsis	Maximum multipaths per prefix
Context	**configure** router *named-item-64* bgp multipath max-paths *number*
Tree	max-paths
Range	1 to 64
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

restrict *keyword*

Synopsis	AS path restriction for the non-best path
Context	**configure** router *named-item-64* bgp multipath restrict *keyword*
Tree	restrict
Options	same-as-path-length, same-neighbor-as, exact-as-path
Default	same-as-path-length
Introduced	25.3.R2
Platforms	SAR Gen 2

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unequal-cost *boolean*

Synopsis	Ignore differences in the next-hop cost for multipath
Context	**configure** router *named-item-64* bgp multipath unequal-cost *boolean*
Tree	unequal-cost
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Enter the **neighbor** list instance
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address of the BGP peer router
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

add-paths

Synopsis	Enable the **add-paths** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths

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Tree	add-paths
Description	Commands in this context allow the add-paths node to be configured for the specified families for configuration of the BGP group or neighbor. The BGP add-paths capability allows the router to send or receive multiple paths per prefix to and from a peer. When unconfigured, command settings are inherited from a higher level BGP configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths evpn
Tree	evpn
Description	Commands in this context configure the add-paths capability for EVPN routes. By default, add-paths is not enabled for EVPN routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple EVPN paths per prefix from a peer
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths evpn receive *boolean*
Tree	receive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per EVPN prefix to Add-Path peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths evpn send *(number | keyword)*
Tree	send
Range	1 to 16

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Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv4 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, the router can receive multiple unlabeled IPv4 unicast routes per prefix from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number \| keyword)*

Synopsis	Maximum paths per unlabeled IPv4 unicast prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths per unlabeled IPv4 unicast prefix that are allowed to be advertised to ADD-PATH peers. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules.

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When not configured, ADD-PATH send capability is not enabled for unlabeled IPv4 unicast routes.

Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per IPv6 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple unlabeled IPv6 unicast routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per unlabeled IPv6 unicast prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths per unlabeled IPv4 unicast prefix that are allowed to be advertised to ADD-PATH peers. The actual number of

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advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules.

When not configured, ADD-PATH send capability is not enabled for unlabeled IPv4 unicast routes.

Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4

Synopsis	Enter the **label-ipv4** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths label-ipv4
Tree	label-ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv4 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths label-ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple labeled-unicast routes per IPv4 prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number | keyword)*

Synopsis	Maximum paths per labeled IPv4 unicast prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths label-ipv4 send *(number | keyword)*
Tree	send

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Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per labeled IPv4 unicast prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for labeled IPv4 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6

Synopsis	Enter the **label-ipv6** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths label-ipv6
Tree	label-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple labeled-unicast routes per IPv6 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths label-ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple labeled-unicast routes per IPv6 prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send *(number \| keyword)*

Synopsis	Maximum paths per labeled IPv6 unicast prefix

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths label-ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per labeled IPv6 unicast prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for labeled IPv6 unicast routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4

Synopsis	Enter the **vpn-ipv4** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths vpn-ipv4
Tree	vpn-ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per VPN-IPv4 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths vpn-ipv4 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple VPN-IPv4 routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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send *(number | keyword)*

Synopsis	Maximum paths per VPN-IPv4 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths vpn-ipv4 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per VPN-IPv4 prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for VPN-IPv4 routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6

Synopsis	Enter the **vpn-ipv6** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths vpn-ipv6
Tree	vpn-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *boolean*

Synopsis	Receive multiple routes per VPN-IPv6 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths vpn-ipv6 receive *boolean*
Tree	receive
Description	When configured to **true**, this command allows multiple VPN-IPv6 routes per prefix to be received from a peer. When configured to **false**, the ADD-PATH receive capability is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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send *(number | keyword)*

Synopsis	Maximum paths per VPN-IPv6 prefix
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* add-paths vpn-ipv6 send *(number | keyword)*
Tree	send
Description	This command configures the maximum number of paths that are allowed to be advertised to add-paths peers per VPN-IPv6 prefix. The actual number of advertised routes may be less depending on the next-hop diversity requirement, other configuration options, route policies, or route advertisement rules. When not configured, ADD-PATH send capability is not enabled for VPN-IPv6 routes.
Range	1 to 16
Options	multipaths – Number of best multipaths for each NLRI
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the BGP neighbor
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-inactive *boolean*

Synopsis	Advertise an inactive BGP route to peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-inactive *boolean*
Tree	advertise-inactive
Description	When configured to **true**, this command allows an inactive BGP route to be advertised, even though it is not the most preferred route. The effect of the command on advertised unlabeled, labeled, and multicast IPv4 and IPv6 routes depends on several factors. • If the active route for the IP prefix is a BGP route, that route is advertised.

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- If the active route is a non-BGP route and there are valid inactive BGP routes to the same destination, the best valid inactive route is advertised unless the active non-BGP route is matched and accepted by an export policy applied to the session.
- If the active route is a non-BGP route and there are no valid BGP routes to the same destination, no route is advertised unless the active non-BGP route is matched and accepted by an export policy applied to the session.

When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

When this command inherits a value of **false**, the advertisement of inactive BGP routes to other BGP peers is disabled.

Introduced 25.3.R2

Platforms SAR Gen 2

advertise-ipv6-next-hops

Synopsis Enable the **advertise-ipv6-next-hops** context

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops

Tree advertise-ipv6-next-hops

Description Commands in this context allow specified IP family routes to be advertised to IPv6 transport peers with a true IPv6 address when originated or when a configured or automatic next-hop-self action is applied.

When unconfigured, command settings are inherited from a higher level BGP configuration.

Introduced 25.3.R2

Platforms SAR Gen 2

evpn *boolean*

Synopsis Advertise EVPN route with IPv6 next-hop address

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops evpn *boolean*

Tree evpn

Description When configured to **true**, EVPN routes are advertised with IPv6 next-hop addresses to IPv6 transport peers.

When configured to **false**, EVPN routes are advertised with IPv4 next-hop addresses to IPv6 transport peers.

Default false

Introduced 25.3.R2

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Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops ipv4 *boolean*
Tree	ipv4
Description	When configured to **true**, IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, IPv4 routes are advertised with IPv4 next-hop addresses to IPv6 transport peers. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise label IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops label-ipv4 *boolean*
Tree	label-ipv4
Description	When configured to **true**, label IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, label IPv4 routes are advertised with the system IPv4 address as the next hop to IPv6 transport peers. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv6 *boolean*

Synopsis	Advertise label IPv6 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops label-ipv6 *boolean*
Tree	label-ipv6
Description	When configured to **true**, label IPv6 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, label IPv6 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop, encoded as an IPv4-mapped IPv6 address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise VPN IPv4 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops vpn-ipv4 *boolean*
Tree	vpn-ipv4
Description	When configured to **true**, VPN IPv4 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. The appropriate extended NH encoding capability must also be received from the remote peer before the route can be advertised with an IPv6 address instead of the IPv4 system address as the next hop. When configured to **false**, VPN IPv4 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop. If the route matches a BGP export policy entry that tries to change the next hop to an IPv6 address and an appropriate extended NH encoding capability was not received by the remote peer, the route is handled as though it was rejected by the policy entry.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Advertise VPN IPv6 route with IPv6 next-hop address
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops vpn-ipv6 *boolean*

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Tree	vpn-ipv6
Description	When configured to **true**, VPN IPv6 routes are advertised with IPv6 next-hop addresses to IPv6 transport peers. When configured to **false**, VPN IPv6 routes are advertised toward IPv6 transport peers with the system IPv4 address as the BGP next hop, encoded as an IPv4-mapped IPv6 address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-ldp-prefix *boolean*

Synopsis	Advertise active /32 LDP FEC prefixes to BGP peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ldp-prefix *boolean*
Tree	advertise-ldp-prefix
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregator-id-zero *boolean*

Synopsis	Set router ID in the BGP AGGREGATOR attribute to zero
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* aggregator-id-zero *boolean*
Tree	aggregator-id-zero
Introduced	25.3.R2
Platforms	SAR Gen 2

aigp *boolean*

Synopsis	Add AIGP attribute to advertised routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* aigp *boolean*
Tree	aigp
Description	When configured to **true**, this command enables Accumulated IGP (AIGP) path attribute support with one or more BGP peers. BGP path selection among routes with an

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associated AIGP metric is based on the end-to-end IGP metrics of the different BGP paths, even when these BGP paths span more than one AS and IGP instance.

When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

When this command inherits a value of **false**, the AIGP attribute is removed from advertised routes, if present, and is ignored in received routes.

Introduced 25.3.R2

Platforms SAR Gen 2

as-override *boolean*

Synopsis Replace the peer's ASN with the local ASN in AS Path

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* as-override *boolean*

Tree as-override

Description When configured to **true**, the advertising router's local AS replaces all occurrences of the peer AS in the AS_PATH attribute.

This command should be used with caution, as it breaks BGP's loop detection mechanism.

When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). This command cannot be explicitly configured to **false**.

When configured to **false**, no AS override is performed.

Introduced 25.3.R2

Platforms SAR Gen 2

asn-4-byte *boolean*

Synopsis Advertise the use of 4-byte ASNs

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* asn-4-byte *boolean*

Tree asn-4-byte

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis BGP authentication key

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the BGP authentication key peers in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication-keychain *reference*
Tree	authentication-keychain
Description	This command associates the keychain to be used to authenticate the BGP session. The keychain allows the rollover of authentication keys during the lifetime of a session.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, BFD is enabled on a given protocol interface where the state of the protocol interface is tied to the state of the BFD session between the local node and the remote node. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, BFD is removed from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-strict-mode

Synopsis	Enter the **bfd-strict-mode** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode
Tree	bfd-strict-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode advertise
Tree	advertise
Description	Commands in this context configure BGP to advertise the Strict-BFD capability to peers that are within scope of this command and meet the following requirements: • The inherited or configured value for the **bfd-liveness** command that applies to the peer is **true**. • The interface associated with the peer has a valid BFD configuration. When the preceding conditions are satisfied and two peers attempting to form a session both advertise the Strict-BFD capability, the BGP finite state machine in each router transitions the session state to established after the BFD session with the peer enters the up state. When unconfigured, BGP does not advertise the Strict-BFD capability to peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Maximum time BGP waits for the BFD session to come up
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode advertise holdtime *number*
Tree	holdtime
Description	This command configures the maximum time BGP waits for the BFD session to come up, provided that the Strict-BFD procedures apply to a session, and the negotiated BGP hold time is zero (no keepalives). If the negotiated BGP hold time is greater than zero, the advertised hold time is not considered.

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Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-reachability *boolean*

Synopsis	Consider next hop unreachable if BFD session is down
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode next-hop-reachability *boolean*
Tree	next-hop-reachability
Description	When configured to **true**, the router considers next-hop self routes belonging to specific address families received from a peer within scope of this command as having an unresolved next hop, provided that the following requirements are met: • The BFD session to the peer is in a down state. • There is a valid interface BFD configuration that applies to the peer. • There is a valid BFD liveness configuration that applies to the peer. The unresolved state is maintained until the BFD session state changes to up or administratively down, even if there is a resolving route or tunnel that matches the BGP next-hop address. Routes received from one peer with a BGP next-hop address equal to the address of another peer are not affected by the BFD session to the other peer.The behavior of the router when this command is **true** does not depend on whether Strict-BFD is used, as both features are independent. Configuring this command to **true** only affects routes belonging to the following address families: • IPv4 • IPv6 • IPv4 VPN • IPv6 VPN • labeled unicast IPv4 • labeled unicast IPv6 • EVPN • IPv4 multicast • IPv6 multicast • IPv4 VPN multicast • IPv6 VPN multicast

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When configured to **false**, the router does not consider next-hop self routes belonging to the preceding address families as having an unresolved next hop if the BFD session goes down.

Introduced 25.3.R2

Platforms SAR Gen 2

block-prefix-sid *boolean*

Synopsis Block the prefix SID attribute

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* block-prefix-sid *boolean*

Tree block-prefix-sid

Description When configured to **true**, all prefix SID attributes are removed from all routes exchanged between EBGP and IBGP peers covered by the scope of the command. Locally-imposed prefix SID attributes are also removed.

When configured to **false**, all prefix SID attributes are propagated without restriction.

A change of this configuration causes the affected BGP sessions to flap.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

capability-negotiation *boolean*

Synopsis Enable capability negotiation

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* capability-negotiation *boolean*

Tree capability-negotiation

Introduced 25.3.R2

Platforms SAR Gen 2

client-reflect *boolean*

Synopsis Allow cluster RR to advertise routes to its clients

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* client-reflect *boolean*

Tree client-reflect

Introduced 25.3.R2

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Platforms	SAR Gen 2

cluster

Synopsis	Enter the **cluster** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* cluster
Tree	cluster
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-local-fallback *boolean*

Synopsis	Allow fallback to RR topology
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* cluster allow-local-fallback *boolean*
Tree	allow-local-fallback
Description	When configured to **true**, this command allows the RR to advertise the best BGP path from its own topology location when there are no reachable routes from the client's ORR location. The ORR location must be specified before this command can be set to **true**. When configured to **false**, this command no route is advertised to the client.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id *ipv4-address*

Synopsis	Route reflector cluster ID
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* cluster cluster-id *ipv4-address*
Tree	cluster-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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orr-location *number*

Synopsis	Optimal route reflection location for the cluster
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* cluster orr-location *number*
Tree	orr-location
Description	This command configures an ORR location ID. If a cluster ID is also specified, the clients in that cluster receive routes optimal for that specific location. With optimal route reflection, the best path advertised to a client takes location ID into account. If the tie-break for best path (or Add-Paths) comes down to next-hop IGP cost, the IGP costs will be calculated relative to the specified location. In the SR OS implementation, the IGP costs from arbitrary ORR locations are calculated using OSPF, OSPFv3, IS-IS, or BGP-LS information in the TE DB.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

connect-retry *number*

Synopsis	BGP connect retry timer value
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* connect-retry *number*
Tree	connect-retry
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

damp-peer-oscillations

Synopsis	Enable the **damp-peer-oscillations** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations
Tree	damp-peer-oscillations
Introduced	25.3.R2
Platforms	SAR Gen 2

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error-interval *number*

Synopsis	Time after a reset that the session must be error-free
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations error-interval *number*
Tree	error-interval
Description	This command sets the interval of time after a reset, during which the session must be error-free in order to reset the penalty counter and return the idle hold time to the initial wait time.
Range	0 to 2048
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-hold-time

Synopsis	Enter the **idle-hold-time** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time
Tree	idle-hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-wait *number*

Synopsis	Time session remains in idle state after stabilization
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time initial-wait *number*
Tree	initial-wait
Range	0 to 2048
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-wait *number*

Synopsis	Maximum session idle time after repeated instability
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time max-wait *number*
Tree	max-wait
Range	1 to 2048
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Time that doubles after each repeated session failure
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time second-wait *number*
Tree	second-wait
Description	This command defines the hold time that doubles after each repeated session failure that occurs in a short span of time.
Range	1 to 2048
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *boolean*

Synopsis	Use BGP route damping to reduce route flap
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damping *boolean*
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

def-recv-evpn-encap *keyword*

Synopsis	Default EVPN encapsulation type

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* def-recv-evpn-encap *keyword*
Tree	def-recv-evpn-encap
Description	This command specifies the encapsulation type that BGP uses when an EVPN route is received without the Encapsulation Extended Community. When unconfigured, the setting for this command is inherited from the BGP group-level configuration.
Options	mpls, vxlan
Introduced	25.3.R2
Platforms	SAR Gen 2

default-label-preference

Synopsis	Enter the **default-label-preference** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-label-preference
Tree	default-label-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-label-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-label-preference ibgp *number*
Tree	ibgp
Range	0 to 255

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Introduced	25.3.R2
Platforms	SAR Gen 2

default-preference

Synopsis	Enter the **default-preference** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-preference
Tree	default-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

default-route-target *boolean*

Synopsis	Send default RTC route (zero prefix length) to peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-route-target *boolean*

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Tree	default-route-target
Description	When configured to **true**, this command sends the default RTC route (zero prefix length) toward the selected peers. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, a default RTC route is not sent.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-default-reject-policy

Synopsis	Enable the **ebgp-default-reject-policy** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ebgp-default-reject-policy
Tree	ebgp-default-reject-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Enable default reject export policy for external peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ebgp-default-reject-policy export *boolean*
Tree	export
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

import *boolean*

Synopsis	Enable default reject import policy for external peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ebgp-default-reject-policy import *boolean*
Tree	import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-engineering

Synopsis	Enable the **egress-engineering** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* egress-engineering
Tree	egress-engineering
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BGP egress engineering
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* egress-engineering admin-state *keyword*
Tree	admin-state
Description	This command administratively enables or disables egress engineering for the BGP. If enabled, peer node SIDs and peer adjacency SIDs are advertised in BGP-LS.
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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egress-peer-engineering-label-unicast *boolean*

Synopsis	Generate EPE label-unicast routes for neighbor
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* egress-peer-engineering-label-unicast *boolean*
Tree	egress-peer-engineering-label-unicast
Description	When configured to **true**, BGP generates a label-unicast route for the /32 or /128 prefix that corresponds to the BGP neighbor address. This route can be advertised to other routers to recursively resolve unlabeled BGP routes for AS external destinations. This supports the Egress Peer Engineering (EPE) use case.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-first-as *boolean*

Synopsis	Enforce the configured peer AS value in received routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* enforce-first-as *boolean*
Tree	enforce-first-as
Description	When configured to **true** for an EBGP session, all routes received from an EBGP peer are checked to ensure that the most recent ASN in the AS_PATH attribute of each route matches the configured AS of the session. If there is not a match, the session is reset (if the **update-fault-tolerance** command in the **error-handling** context is set to **false**) or the session is left up but the route is treated as withdrawn (if **update-fault-tolerance** is set to **true**). This command does not flap an established session because it applies only to routes received after the command is issued. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, received routes are not checked for compliance with the rule.
Introduced	25.3.R2
Platforms	SAR Gen 2

error-handling

Synopsis	Enter the **error-handling** context

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling
Tree	error-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

update-fault-tolerance *boolean*

Synopsis	Tolerate non-critical errors in UPDATE messages
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling update-fault-tolerance *boolean*
Tree	update-fault-tolerance
Description	When configured to **true**, non-critical errors are handled with treat-as-withdraw, attribute-discard, and other non-disruptive approaches that do not cause a session reset. Critical errors still trigger a session reset. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, all errors trigger a session reset.
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Enable the **export** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* export
Tree	export
Description	Commands in this context specify route policies that control the handling of outbound routes transmitted to certain peers. Route policies are configured in the **configure policy-options** context. When this context is unconfigured, the policy association for the group is inherited from the BGP global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	BGP export policy name

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* export policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies route policies that control the handling of outbound routes transmitted to certain peers. Each object in this command is either a policy logical expression or the name of a single policy. The objects are evaluated in the specified order to determine the modifications of each route and the final action to accept or reject the route. Only one of the objects referenced by the command can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end"," @variable@end", or "start@variable@".
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-nh-encoding

Synopsis	Enable the **extended-nh-encoding** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* extended-nh-encoding
Tree	extended-nh-encoding
Description	Commands in this context specify the address families enabled to advertise the capability to receive label IPv4 routes, VPN IPv4 routes, or IPv6 next hops from peers. The peers should not send such routes unless notification has been received of this capability. If the router receives an enabled address family route from a peer to which it did not advertise the necessary capability, the UPDATE message will be considered malformed. This causes either a session reset or treat-as-withdraw behavior depending on the error handling settings. When the context is unconfigured, command settings are inherited from the higher level BGP configuration.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise encoding capability for IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* extended-nh-encoding ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise encoding capability for label-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* extended-nh-encoding label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise encoding capability for VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* extended-nh-encoding vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family

Synopsis	Enable the **family** context

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ls *boolean*

Synopsis	Advertise MP-BGP support for the BGP-LS address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family bgp-ls *boolean*
Tree	bgp-ls
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Advertise MP-BGP support for the EVPN address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-ipv6 *boolean*

Synopsis	Advertise support for the FlowSpec-IPv6 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family flow-ipv6 *boolean*
Tree	flow-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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flow-vpn-ipv4 *boolean*

Synopsis	Advertise support for FlowSpec-VPN IPv4 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family flow-vpn-ipv4 *boolean*
Tree	flow-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-vpn-ipv6 *boolean*

Synopsis	Advertise support for FlowSpec-VPN IPv6 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family flow-vpn-ipv6 *boolean*
Tree	flow-vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Add support for the IPv4 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the IPv6 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family ipv6 *boolean*
Tree	ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

l2-vpn *boolean*

Synopsis	Advertise MP-BGP support for the L2-VPN address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family l2-vpn *boolean*
Tree	l2-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise support for the label-IPv4 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise support for the label-IPv6 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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mcast-ipv4 *boolean*

Synopsis	Advertise support for the MCAST-IPv4 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Advertise support for the MCAST-IPv6 address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mcast-ipv6 *boolean*
Tree	mcast-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv4 *boolean*

Synopsis	Advertise support for the IPv4 VPN MCAST address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mcast-vpn-ipv4 *boolean*
Tree	mcast-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv6 *boolean*

Synopsis	Advertise support for the IPv6 VPN MCAST address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mcast-vpn-ipv6 *boolean*
Tree	mcast-vpn-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mdt-safi *boolean*

Synopsis	Advertise MP-BGP support for MDT-SAFI address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mdt-safi *boolean*
Tree	mdt-safi
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ms-pw *boolean*

Synopsis	Advertise support for multi-segment PW address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family ms-pw *boolean*
Tree	ms-pw
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target *boolean*

Synopsis	Advertise MP-BGP support for RT constraint routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family route-target *boolean*
Tree	route-target
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-policy-ipv4 *boolean*

Synopsis	Advertise MP-BGP support for the SR-policy-IPv4 family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family sr-policy-ipv4 *boolean*
Tree	sr-policy-ipv4
Description	This command allows the router to advertise the capability for AFI1/SAFI73, which corresponds to BGP routes that encode a segment routing policy to an IPv4 destination.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy-ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the SR-policy-IPv6 family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family sr-policy-ipv6 *boolean*
Tree	sr-policy-ipv6
Description	This command allows the router to advertise the capability for AFI2/SAFI73, which corresponds to BGP routes that encode a segment routing policy to an IPv6 destination.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Advertise MP-BGP support for IPv4 VPN address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpn-ipv6 *boolean*

Synopsis	Advertise MP-BGP support for IPv6 VPN address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-external-failover *boolean*

Synopsis	Drop external BGP session immediately when link fails
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* fast-external-failover *boolean*
Tree	fast-external-failover
Description	When this command inherits a value of **true**, the router drops an external BGP session on a single-hop route immediately when the local interface goes down. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When configured to **false**, the BGP session remains up until the hold time expires.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart
Tree	graceful-restart
Description	Commands in this context configure BGP graceful restart helper procedures for address families included in the GR capabilities of both peers. When this context is unconfigured, the command settings are inherited from the BGP group-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gr-notification *boolean*

Synopsis	Perform graceful restart procedures after NOTIFICATION
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart gr-notification *boolean*
Tree	gr-notification
Description	When configured to **true**, the Graceful Restart capability sent by the router indicates support for NOTIFICATION messages. If the peer also supports this capability, the session is restarted gracefully (while preserving forwarding) if either peer sends a NOTIFICATION message due to some type of event or error. When configured to **false**, NOTIFICATION messages are not supported.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

long-lived

Synopsis	Enable the **long-lived** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived
Tree	long-lived
Description	Commands in this context configure the BGP Long-Lived Graceful-Restart (LLGR) procedures. LLGR, known informally as BGP persistence, is an extension of BGP GR that allows a session to stay down for a longer period of time. During this time, learned routes are marked and re-advertised as stale but they can continue to be used as routes of last resort. The LLGR handling of a session failure can be invoked immediately or it can be delayed until the end of the traditional GR restart window.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-stale-to-all-neighbors *boolean*

Synopsis	Advertise stale routes to all BGP peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived advertise-stale-to-all-neighbors *boolean*
Tree	advertise-stale-to-all-neighbors

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	Advertised long-lived stale time for LLGR routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Family type for family-specific LLGR configuration
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword*
Tree	family
Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, l2-vpn, flow-ipv4, route-target, flow-ipv6, label-ipv4, label-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertised-stale-time *number*

Synopsis	LLGR stale routes time for family override
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword* advertised-stale-time *number*
Tree	advertised-stale-time
Description	This command configures the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability with a family-specific override.
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword* helper-override-stale-time *number*
Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This is a family-specific override value.
Range	0 to 16777216
Default	16777216
Introduced	25.3.R2
Platforms	SAR Gen 2

forwarding-bits-set *keyword*

Synopsis	BGP LLGR forwarding-bit behavior for address family
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived forwarding-bits-set *keyword*
Tree	forwarding-bits-set
Description	This command determines the setting of the F bit in the GR and LLGR capabilities advertised by the router. When the F bit is set for an address family, it indicates that

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the advertising router is able to preserve forwarding state for the routes of that address family across the last restart. When the session is re-established after a restart and the F bit is not set, all stale routes from the peer are immediately removed for the corresponding address family.

This command allows the F bit to be set for all address families or only for non-forwarding address families (L2-VPN, route target, flow-IPv4, and flow-IPv6).

Options none, all, non-fwd

Default none

Introduced 25.3.R2

Platforms SAR Gen 2

helper-override-restart-time *number*

Synopsis Locally-configured override for restart time

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived helper-override-restart-time *number*

Tree helper-override-restart-time

Description This command overrides the restart time advertised by a peer (in its GR capability) with a locally-configured value. This override applies only to AFI/SAFI that were included in the GR capability of the peer. The restart-time is always zero for AFI/SAFI not included in the GR capability. This command is useful if the local router wants to force the LLGR phase to begin after a set time for all protected AFI/SAFI.

Range 0 to 4095

Introduced 25.3.R2

Platforms SAR Gen 2

helper-override-stale-time *number*

Synopsis Locally-configured stale routes override time

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived helper-override-stale-time *number*

Tree helper-override-stale-time

Description This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability.

This command applies to all AFI/SAFI in the advertised LLGR capability except for any AFI/SAFI with a family-specific override.

Range 0 to 16777215

Introduced 25.3.R2

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Platforms	SAR Gen 2

without-no-export *boolean*

Synopsis	Advertise LLGR stale routes to non-LLGR peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived without-no-export *boolean*
Tree	without-no-export
Description	When configured to **true**, LLGR stale routes can be advertised to any peer (EBGP or IBGP) that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0. When configured to **false**, LLGR stale routes are not advertised to any EBGP peer that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0 and a NO_EXPORT standard community is automatically added to the routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

restart-time *number*

Synopsis	Restart time advertised by GR capability
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart restart-time *number*
Tree	restart-time
Range	0 to 4095
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-routes-time *number*

Synopsis	Maximum time to maintain routes after graceful restart
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart stale-routes-time *number*
Tree	stale-routes-time

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Range	1 to 3600
Default	360
Introduced	25.3.R2
Platforms	SAR Gen 2

group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	BGP peer group
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* group *reference*
Tree	group
Reference	**configure** router *named-item-64* bgp group *named-item-64*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-hold-time *number*

Synopsis	Minimum time BGP waits between successive messages
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time minimum-hold-time *number*
Tree	minimum-hold-time
Range	0 | 3 to 65536

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Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Maximum hold time between successive messages
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time seconds *number*
Tree	seconds
Description	The BGP hold time specifies the maximum time BGP waits between successive messages (either keepalive or update) from its peer, before closing the connection. Even though the implementation allows setting the keepalive timer at the BGP neighbor level times separately, the configured keepalive timer is overridden by this value under the following circumstances: • If the specified hold time is less than the configured keepalive time, then the operational keepalive time is set to a third of the hold-time; the configured keepalive time is not changed. • If the hold time is set to zero, the operational value of the keepalive time is set to zero; the configured keepalive time is not changed. This means that the connection with the peer is up permanently and no keepalive packets are sent to the peer. When unconfigured, the command setting is inherited from the BGP group-level configuration.
Range	0 | 3 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enable the **import** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* import
Tree	import
Description	Commands in this context specify route policies that control the handling of inbound routes received from certain peers. Route policies are configured in the **configure policy-options** context. When this context is unconfigured, the policy association is inherited from the BGP group-level configuration.
Introduced	25.3.R2

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Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Names of the BGP import policies
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies route policies that control the handling of inbound routes received from certain peers. Each object in this command is either a policy logical expression or the name of a single policy. The objects are evaluated in the specified order to determine the modifications of each route and the final action to accept or reject the route. Only one of the objects referenced by the command can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). Policy parameters must be enclosed by at-signs (@) and may be midstring; for example, "@variable@," "start@variable@end"," @variable@end", or "start@variable@".
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-send-delay-zero *boolean*

Synopsis	Send BGP updates as soon as the session comes up
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* initial-send-delay-zero *boolean*
Tree	initial-send-delay-zero
Description	When configured to **true**, BGP updates are sent as soon as the session comes up. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

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When this command inherits a value of **false**, BGP waits to send UPDATE messages for the minimum route advertisement time after a session is established.

Introduced 25.3.R2

Platforms SAR Gen 2

keepalive *number*

Synopsis Time after which the BGP KEEPALIVE message is sent

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* keepalive *number*

Tree keepalive

Range 0 to 21845

Introduced 25.3.R2

Platforms SAR Gen 2

l2vpn-cisco-interop *boolean*

Synopsis Allow translation from Cisco non-compliant NLRI format

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* l2vpn-cisco-interop *boolean*

Tree l2vpn-cisco-interop

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

label-preference *number*

Synopsis Route preference for routes from labeled-unicast peers

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* label-preference *number*

Tree label-preference

Range 1 to 255

Introduced 25.3.R2

Platforms SAR Gen 2

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link-bandwidth

Synopsis	Enter the **link-bandwidth** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth
Tree	link-bandwidth
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-from-ebgp

Synopsis	Enable the **accept-from-ebgp** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp
Tree	accept-from-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

add-to-received-ebgp

Synopsis	Enable the **add-to-received-ebgp** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp
Tree	add-to-received-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp vpn-ipv6 *boolean*
Tree	vpn-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregate-used-paths

Synopsis	Enable the **aggregate-used-paths** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths
Tree	aggregate-used-paths
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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send-to-ebgp

Synopsis	Enable the **send-to-ebgp** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp
Tree	send-to-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in VPN-IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address *(ipv4-address-no-zone \| ipv6-address-no-zone \| interface-name)*

Synopsis	Local IP address used when communicating with BGP peers

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-address *(ipv4-address-no-zone | ipv6-address-no-zone | interface-name)*
Tree	local-address
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

local-as

Synopsis	Enter the **local-as** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as
Tree	local-as
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Local (or virtual) BGP AS number
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

prepend-global-as *boolean*

Synopsis	Prepend global ASN when advertising routes to BGP peer
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as prepend-global-as *boolean*
Tree	prepend-global-as
Description	When configured to **true**, the global ASN is added to the AS_PATH attribute in outbound routes sent to the peer. When configured to **false**, the global ASN is not included in the AS_PATH attribute.
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

private *boolean*

Synopsis	Hide the local ASN in sent paths learned from peering
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as private *boolean*
Tree	private
Description	When configured to **true**, the local AS number is only advertised to peers that use the local ASN for establishing BGP peering sessions. When configured to **false**, the local ASN is advertised to all peers, including those that can use the global ASN for establishing BGP peering sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Default local preference if not in incoming routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-preference *number*
Tree	local-preference
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect *keyword*

Synopsis	Strategy for loop detection in the AS path
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* loop-detect *keyword*
Tree	loop-detect
Options	drop-peer, ignore-loop, off, discard-route
Introduced	25.3.R2
Platforms	SAR Gen 2

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loop-detect-threshold *number*

Synopsis	Threshold for the global ASN in a received AS path
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* loop-detect-threshold *number*
Tree	loop-detect-threshold
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

med-out *(number | keyword)*

Synopsis	Default MED attribute value to advertise to peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* med-out *(number | keyword)*
Tree	med-out
Max. range	0 to 4294967295
Options	igp-cost
Introduced	25.3.R2
Platforms	SAR Gen 2

min-route-advertisement *number*

Synopsis	Minimum interval between successive prefix updates
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* min-route-advertisement *number*
Tree	min-route-advertisement
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multihop *number*

Synopsis	TTL in IP packet headers for EBGP peers multi-hops away
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* multihop *number*

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Tree	multihop
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multipath-eligible *boolean*

Synopsis	Allow routes from this peer in multipath eligibility
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* multipath-eligible *boolean*
Tree	multipath-eligible
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-self *boolean*

Synopsis	Advertise routes with local address as next-hop address
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-self *boolean*
Tree	next-hop-self
Description	When configured to **true**, this command configures BGP to advertise routes to members of a group using a local address of the BGP instance as the BGP next-hop address. Note that this command is set without exception, regardless of the route source (EBGP or IBGP) or its family. When used with VPN-IPv4 and VPN-IPv6 routes, the **configure router bgp rr-vpn-forwarding** command should also be configured. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, protocol standard behavior is applied to determine whether to set **next-hop-self** in advertised routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-unchanged

Synopsis	Enable the **next-hop-unchanged** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-unchanged
Tree	next-hop-unchanged

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Description	Commands in this context specify the IP address families where the next hop remains unchanged when sending BGP routes to peers of the neighbor.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Advertise EVPN routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-unchanged evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise label-IPv4 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-unchanged label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Advertise label-IPv6 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-unchanged label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpn-ipv4 *boolean*

Synopsis	Advertise VPN IPv4 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-unchanged vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Advertise VPN IPv6 routes with unchanged BGP next hop
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-unchanged vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation

Synopsis	Enable the **origin-validation** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation
Tree	origin-validation
Description	Commands in this context configure the marking of every inbound IPv4, IPv6, labeled IPv4, and labeled IPv6 route from the BGP peer with one of the following origin validation states: • Valid (0) • Not-Found (1) • Invalid (2) The configurations apply to all types of BGP peers, but generally should be applied only to EBGP peers and groups that contain only EBGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Enable support for labeled-unicast IPv6 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation label-ipv6 *boolean*
Tree	label-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound-route-filtering

Synopsis	Enable the **outbound-route-filtering** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* outbound-route-filtering
Tree	outbound-route-filtering
Description	Commands in this context configure the send and receive capabilities for Outbound Route Filtering (ORF). When this context is unconfigured, the command settings are inherited from the BGP group-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-community

Synopsis	Enable the **extended-community** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* outbound-route-filtering extended-community
Tree	extended-community
Description	Commands in this context configure the ORF send and receive capabilities based on Extended Communities. When this context is unconfigured, the command settings are inherited from the group-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-orf *boolean*

Synopsis	Negotiate with peer to accept BGP ORF filters
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* outbound-route-filtering extended-community accept-orf *boolean*
Tree	accept-orf
Description	When configured to **true**, the receive capability in the BGP ORF is negotiated with a peer and ORF filters can be accepted from peers.

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When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

When this command inherits a value of **false**, the accept capability in the BGP ORF is removed and any existing ORF filters that are currently in place are cleared.

Introduced 25.3.R2

Platforms SAR Gen 2

send-orf

Synopsis Enable the **send-orf** context

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* outbound-route-filtering extended-community send-orf

Tree send-orf

Description Commands in this context allow BGP to negotiate the send capability in the ORF negotiation with a peer. The send capability also causes the router to send a community filter, prefix filter, or AS path filter configured as an inbound filter on the BGP session to its peer as an ORF Action ADD.

When this context is unconfigured, the command settings are inherited from the BGP group-level configuration.

Introduced 25.3.R2

Platforms SAR Gen 2

route-target [community-name] *named-item*

Synopsis Add a list entry for **route-target**

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* outbound-route-filtering extended-community send-orf route-target *named-item*

Tree route-target

Introduced 25.3.R2

Platforms SAR Gen 2

[**community-name**] *named-item*

Synopsis Route target community name

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* outbound-route-filtering extended-community send-orf route-target *named-item*

Tree route-target

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Use passive mode for BGP communication
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* passive *boolean*
Tree	passive
Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu-discovery *boolean*

Synopsis	Enable path MTU discovery
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-mtu-discovery *boolean*
Tree	path-mtu-discovery
Description	When configured to **true**, Path MTU Discovery (PMTUD) is enabled for the associated TCP connections. When set to **true**, PMTUD is activated toward an IPv4 BGP neighbor and the Don't Fragment (DF) bit is set in the IP header of all IPv4 packets sent to the peer. If any device along the path toward the peer cannot forward the packet because the IP MTU of the interface is smaller than the IP packet size, this device drops the packet and sends an ICMP or ICMPv6 error message encoding the interface MTU. When the router receives the ICMP or ICMPv6 message, it lowers the TCP maximum segment size limit from the previous value so that the IP MTU constraint can be accommodated. When PMTUD is configured to **false** and there is no TCP MSS configuration that can be associated with a BGP neighbor (in either the BGP configuration or the first hop IP interface configuration), the router advertises a value of only 1024 bytes as the TCP MSS option value, limiting received TCP segments to that size.
Introduced	25.3.R2
Platforms	SAR Gen 2

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peer-as *number*

Synopsis	Peer AS number
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-as *number*
Tree	peer-as
Description	This command configures the autonomous system number for the peer. The peer AS number must be configured for each configured peer. For EBGP peers, the peer AS number configured must be different from the autonomous system number configured for this router under the global level since the peer will be in a different autonomous system than this router. For IBGP peers, the peer AS number must be the same as the autonomous system number of this router configured under the global level.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-creation-type *keyword*

Synopsis	Peer creation type
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-creation-type *keyword*
Tree	peer-creation-type
Options	static, dynamic, dynamic-if-remote, dynamic-if-local
Default	static
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-tracking *boolean*

Synopsis	Enable BGP peer tracking
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-ip-tracking *boolean*
Tree	peer-ip-tracking
Description	When configured to **true**, this command enables BGP peer tracking. Peer tracking should be used with caution. Peer tracking can tear a session down even if the loss of connectivity turns out to be short-lived (for example, while the IGP protocol

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is re-converging). Next-hop tracking, which is always enabled, handles temporary connectivity issues more effectively.

When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

When this command inherits a value of **false**, peer tracking is disabled.

Introduced 25.3.R2

Platforms SAR Gen 2

preference *number*

Synopsis Route preference for routes learned from all peers

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* preference *number*

Tree preference

Description This command configures the route preference for routes learned from the configured peers.

The lower the preference value, the higher the chance of the route being the active route. The router assigns BGP routes the highest default preference as compared to routes that are direct, static or learned via MPLS or OSPF.

When unconfigured, the command setting is inherited from the group-level configuration.

Range 1 to 255

Introduced 25.3.R2

Platforms SAR Gen 2

prefix-limit [family] *keyword*

Synopsis Enter the **prefix-limit** list instance

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword*

Tree prefix-limit

Introduced 25.3.R2

Platforms SAR Gen 2

[**family**] *keyword*

Synopsis Address family to which the limit applies

Context **configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword*

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Tree	prefix-limit
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4, sr-policy-ipv6, flow-vpn-ipv4, flow-vpn-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-excess *number*

Synopsis	Percentage of maximum routes to install in route table
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* hold-excess *number*
Tree	hold-excess
Description	This command specifies the percentage of maximum routes that are allowed to be installed in the route table for the configured address family. If a peer within scope of the configuration exceeds the limit, the overflow routes are held in the BGP RIB as inactive routes and are ineligible for forwarding and advertisement to other peers. If the **post-import** command is configured to **true**, only routes not rejected by import policies count toward the limit. A BGP route in an overflow state is reconsidered for activation and reinstallation when an UPDATE message is received for the route. This command is mutually exclusive with the **idle-timeout** and **log-only** commands.
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *number*

Synopsis	Time which BGP peering remains idle before reconnecting
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* idle-timeout *number*
Tree	idle-timeout
Description	This command defines the idle time after an administrative take-down before BGP re-establishes a session and reconnects to a peer. When unconfigured, the command inherits the value from the group-level configuration.
Range	1 to 1024

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Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Send warning message at threshold instead of take-down
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum *number*

Synopsis	Maximum number of routes to be learned from a peer
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* maximum *number*
Tree	maximum
Description	This command configures the maximum number of BGP routes than can be received from a peer before administrative action is taken.
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

post-import *boolean*

Synopsis	Apply limit only to routes accepted by import policies
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* post-import *boolean*
Tree	post-import
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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threshold *number*

Synopsis	Percentage threshold that triggers a warning message
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* threshold *number*
Tree	threshold
Range	1 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

remove-private

Synopsis	Enable the **remove-private** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private
Tree	remove-private
Introduced	25.3.R2
Platforms	SAR Gen 2

limited *boolean*

Synopsis	Remove private ASNs up to first public ASN encountered
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private limited *boolean*
Tree	limited
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *boolean*

Synopsis	Replace private ASN with global ASN before advertising
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private replace *boolean*
Tree	replace

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

skip-peer-as *boolean*

Synopsis	Keep private ASN if it is the same as the BGP peer ASN
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private skip-peer-as *boolean*
Tree	skip-peer-as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

selective-label-ipv4-install *boolean*

Synopsis	Enable selective download for BGP label-ipv4 routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* selective-label-ipv4-install *boolean*
Tree	selective-label-ipv4-install
Introduced	25.3.R2
Platforms	SAR Gen 2

send-communities

Synopsis	Enter the **send-communities** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities
Tree	send-communities
Introduced	25.3.R2
Platforms	SAR Gen 2

extended *boolean*

Synopsis	Advertise the Extended Communities attribute to peers

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities extended *boolean*
Tree	extended
Description	When unconfigured, this command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP extended communities are sent to peers in the Extended Communities attribute. When configured to **false**, all extended communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

large *boolean*

Synopsis	Advertise the Large Communities attribute to peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities large *boolean*
Tree	large
Description	When unconfigured, this command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP large communities are sent to peers in the Large Communities attribute. When configured to **false**, all large communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Advertise the Communities attribute to peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities standard *boolean*
Tree	standard
Description	When unconfigured, this command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP standard communities are sent to peers in the Communities attribute. When configured to **false**, all standard communities are removed from all routes advertised to BGP peers.

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Introduced	25.3.R2
Platforms	SAR Gen 2

send-default

Synopsis	Enable the **send-default** context
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default
Tree	send-default
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policy name
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable IPv4 family type
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable IPv6 family type

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Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Prevent routes being reflected back to best-route peer
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split-horizon. This command prevents routes from being reflected back to a peer that sends the best route. It applies to routes of all address families and to any type of sending peer; confed-EBGP, EBGP and IBGP. Enabling the split-horizon functionality may have a detrimental impact on peer and route scaling and should only be used when absolutely necessary. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the use of split-horizon is disabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss *(number | keyword)*

Synopsis	TCP maximum segment size override
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* tcp-mss *(number | keyword)*
Tree	tcp-mss
Description	This command configures an override for the TCP maximum segment size to use with a specific peer or set of peers (depending on the scope of the command). The configured value controls two properties of the TCP connection as follows: TCP MSS option - The router advertises the TCP MSS option value in the TCP SYN packet it sends as part of the 3-way handshake. The advertised value may be lower than the configured value, depending on the IP MTU of the first hop IP interface. The peers must abide by this value when sending TCP segments to the local router.

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TCP maximum segment size - The actual transmitted size may be lower than the configured value, depending on the TCP MSS option value signaled by the peers, the effect of path MTU discovery, or other factors.

Range	384 to 9746
Options	ip-stack
Introduced	25.3.R2
Platforms	SAR Gen 2

third-party-nexthop *boolean*

Synopsis	Apply third-party next-hop processing to EBGP peers
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* third-party-nexthop *boolean*
Tree	third-party-nexthop
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-security *number*

Synopsis	Minimum TTL value for an incoming BGP packet
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ttl-security *number*
Tree	ttl-security
Description	This command configures the minimum TTL value that BGP will accept from an incoming packet. A packet with a TTL value less than the minimum configured TTL value is discarded. When unconfigured, the command inherits the value of the group-level setting.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	BGP peer type
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* type *keyword*
Tree	type

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Options	internal, external
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-apply-export *boolean*

Synopsis	Apply base-instance BGP export policies to VPN routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* vpn-apply-export *boolean*
Tree	vpn-apply-export
Description	When configured to **true**, base-instance BGP export route policies are applied to VPN-IPv4/6, MVPN-IPv4/6, L2-VPN, MDT-SAFI, MCAST-VPN-IPv4, and EVPN routes. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the export policies are not applied.
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-apply-import *boolean*

Synopsis	Apply base-instance BGP import policies to VPN routes
Context	**configure** router *named-item-64* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* vpn-apply-import *boolean*
Tree	vpn-apply-import
Description	When configured to **true**, base-instance BGP import route policies are applied to VPN-IPv4/6, MVPN-IPv4/6, L2-VPN, MDT-SAFI, MCAST-VPN-IPv4, and EVPN routes. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the import policies are not applied.
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-trust

Synopsis	Enter the **neighbor-trust** context
Context	**configure** router *named-item-64* bgp neighbor-trust
Tree	neighbor-trust

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Description	Commands in this context enable a label security feature at an inter-AS boundary for the specified IP families. This label security feature allows the configuration of a router, acting in a PE or in an ASBR role, to accept packets of VPN-IP or EVPN prefixes only from direct EBGP neighbors to which it advertised a service label. The untrusted state identifies the participating interfaces. The router supports a maximum of 15 network interfaces that can participate in this feature. At a high level, BGP tracks each direct EBGP neighbor over an untrusted interface and to which it sent a prefix label. For each of those prefixes, BGP programs a bit map in the ILM record that indicates, on a per-untrusted interface basis, whether the matching received packets must be forwarded or dropped.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Enable inter-AS label security for the EVPN family
Context	**configure** router *named-item-64* bgp neighbor-trust evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Enable inter-AS label security for the VPN-IPv4 family
Context	**configure** router *named-item-64* bgp neighbor-trust vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Enable inter-AS label security for the VPN-IPv6 family
Context	**configure** router *named-item-64* bgp neighbor-trust vpn-ipv6 *boolean*
Tree	vpn-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-resolution

Synopsis	Enter the **next-hop-resolution** context
Context	**configure** router *named-item-64* bgp next-hop-resolution
Tree	next-hop-resolution
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-unresolved-leaking *boolean*

Synopsis	Allow unresolved BGP routes to be leaked to VPRN routes
Context	**configure** router *named-item-64* bgp next-hop-resolution allow-unresolved-leaking *boolean*
Tree	allow-unresolved-leaking
Description	When configured to **true**, this command instructs BGP in the base router instance to allow its routes to be leaked to other (VPRN) BGP instances even if the routes to be leaked do not have a BGP next-hop that can be resolved by the base instance. When configured to **false**, VPRN cannot import a route.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

labeled-routes

Synopsis	Enter the **labeled-routes** context
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes
Tree	labeled-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

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allow-static *boolean*

Synopsis	Allow static routes to resolve BGP next-hop
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes allow-static *boolean*
Tree	allow-static
Description	When configured to **true**, the BGP next-hop of label-IPv4, label-IPv6, VPN-IPv4, and VPN-IPv6 routes received from any EBGP or IBGP peer can be resolved using static routes, except for static default routes (0/0 and ::/0). A static route is less preferred than a local or interface route for resolving the BGP next-hop of labeled route but is more preferred than other IGP routes or tunnels. When configured to **false**, BGP next-hop resolution using static routes is not allowed. A label-IPv4 or label-IPv6 route can be resolved by a static blackhole route, even when this command is configured to **false**, but only if the static blackhole route is the longest prefix match (LPM) static route for the BGP next-hop address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rr-use-route-table *boolean*

Synopsis	Use RTM to resolve BGP next-hop if TTM resolution fails
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes rr-use-route-table *boolean*
Tree	rr-use-route-table
Description	When configured to **true**, this command enables BGP to perform a lookup of IGP routes in the route table to resolve the BGP next-hop of label-IPv4 and label-IPv6 routes. This is useful for a Route Reflector (RR) that does not participate in tunnel signaling protocols such as LDP and RSVP and therefore, does not have tunnels to resolve the BGP next-hops of label-unicast routes. Disable route table installation (via the **route-table-install** command) before setting this command to **true**; otherwise, forwarding of label routes resolved in this way will be incorrect. When configured to **false**, RTM next-hop resolution is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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transport-tunnel

Synopsis	Enter the **transport-tunnel** context
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel
Tree	transport-tunnel
Description	Commands in this context configure options for the next-hop resolution of BGP labeled routes (VPN-IP and labeled-unicast) using tunnels in TTM.
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for tunnel selection
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword*
Tree	family
Options	vpn, label-ipv4, label-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-flex-algo-fallback *boolean*

Synopsis	Enable flexible algorithm fallback
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* allow-flex-algo-fallback *boolean*
Tree	allow-flex-algo-fallback

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Description	When configured to **true**, a BGP router with a Flex-Algorithm action configured (via the **configure policy-options policy-statement entry action flex-algo** command) can resolve to a tunnel with algorithm 0 if no target Flex-Algorithm tunnel is available**.** When configured to **false**, the BGP router can resolve only to the intended Flex-Algorithm tunnel, which may cause traffic loss if no corresponding Flex-Algorithm tunnel is available.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-strict-tunnel-tagging *boolean*

Synopsis	Consider only LSPs with an admin-tag for next hop
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* enforce-strict-tunnel-tagging *boolean*
Tree	enforce-strict-tunnel-tagging
Description	When configured to **true**, the system only considers LSPs marked with an administrative tag for next-hop resolution. Untagged LSPs are not considered. When configured to **false**, matching admin-tagged RSVP or SR-TE LSPs are used in preference to other LSP types, whether tagged or untagged. If no eligible RSVP or SR-TE LSP exists, the system falls back to using tagged LSPs that are not explicitly excluded by a route admin tag policy and untagged LSPs of other types.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-untagged-route *keyword*

Synopsis	Untagged route type enforcement
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* enforce-untagged-route *keyword*
Tree	enforce-untagged-route
Description	This command configures the enforcement of BGP routes with no administrative tag policy applied by modifying the next-hop resolution behavior for autobind services. If the **untagged-tunnel** option is configured, untagged routes only bind to LSPs with no administrative tag configured. If both tagged and untagged tunnels to the next hop exist, the system only considers the untagged tunnels. If no untagged tunnels to the next hop exist, the resolution of untagged routes fails.

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	The **untagged-tunnel** option can be used in combination with the **enforce-strict-tunnel-tagging** command configured to **true**, in which case tagged routes resolve to tagged LSPs, and untagged routes only resolve to untagged LSPs. When unconfigured, untagged routes can bind to tagged or untagged LSPs.
Options	none – Untagged routes can bind to tagged or untagged LSPs untagged-tunnel – Untagged routes only bind to LSPs without an admin tag
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Resolution mode for binding BGP routes to tunnel types
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution *keyword*
Tree	resolution
Options	none, filter, any
Default	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *boolean*

Synopsis	Use BGP tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter bgp *boolean*
Tree	bgp

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Description	When configured to **true**, this command enables the selection of BGP tunneling for next-hop resolution and specifies the IPv4 tunnels created by receiving BGP label-unicast IPv4 routes for /32 IPv4 prefixes. When configured to **false**, BGP tunneling for next-hop resolution is not enabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp *boolean*

Synopsis	Use LDP tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter ldp *boolean*
Tree	ldp
Description	When configured to **true**, this command enables the selection of LDP tunneling for next-hop resolution and specifies the LDP tunnels in the tunnel table corresponding to /32 IPv4 FECs and /128 IPv6 FECs. When configured to **false**, LDP tunneling for next-hop resolution is not enabled.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter rsvp *boolean*
Tree	rsvp
Description	When configured to **true**, this command enables the selection of RSVP tunneling for next-hop resolution and specifies RSVP tunnels in a tunnel table to IPv4 destinations. This option allows BGP to use the best metric RSVP LSP to the address of the BGP next hop. This address can correspond to the system interface or to another loopback interface of the remote BGP router. In the case of multiple RSVP LSPs with the same lowest metric, BGP selects the LSP with the lowest tunnel ID. When configured to **false**, this command disables the selection of RSVP tunneling for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-isis *boolean*

Synopsis	Use IS-IS SR tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter sr-isis *boolean*
Tree	sr-isis
Description	When configured to **true**, this command enables the selection of the Segment Routing (SR) tunnel type programmed by an IS-IS instance in the TTM for next-hop resolution of BGP labeled routes. This command allows BGP to use the SR tunnel in the tunnel table submitted by the lowest preference IS-IS instance. In the case of a tie, the IS-IS instance with the lowest metric SR tunnel is selected over the lowest numbered IS-IS instance. When configured to **false**, the SR tunnel type programmed by an IS-IS instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf *boolean*

Synopsis	Use OSPF SR tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter sr-ospf *boolean*
Tree	sr-ospf
Description	When configured to **true**, this command enables the selection of the Segment Routing (SR) tunnel type programmed by an OSPF instance in the TTM for next-hop resolution of BGP labeled routes. This command allows BGP to use the SR tunnel in the tunnel table submitted by the lowest preference OSPF instance. In the case of a tie, the OSPF instance with the lowest metric SR tunnel is selected over the lowest numbered OSPF instance. When configured to **false**, the SR tunnel type programmed by an OSPF instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-ospf3 *boolean*

Synopsis	Use OSPFv3 SR tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter sr-ospf3 *boolean*
Tree	sr-ospf3
Description	When configured to **true**, this command enables the selection of the IPv6 Segment Routing (SR) tunnel type programmed by an OSPFv3 instance in the TTMv6 for next-hop resolution of BGP labeled routes. This command allows BGP to use the SR tunnel in the tunnel table submitted by the lowest preference OSPFv3 instance. In the case of a tie, the OSPFv3 instance with the lowest metric SR tunnel is selected over the lowest numbered OSPFv3 instance. When configured to **false**, the SR tunnel type programmed by an OSPFv3 instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy *boolean*

Synopsis	Use SR policies for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter sr-policy *boolean*
Tree	sr-policy
Description	When configured to **true**, this command enables the use of SR policies to resolve the next hop of BGP routes. The SR policies are statically configured in the local router or learned through BGP routes (AFI 1/SAFI 73 or AFI 2/SAFI 73). BGP resolves a labeled IPv4 route with an IPv4 next-hop address or a labeled IPv6 route with IPv4-mapped IPv6 next-hop address using an SR policy selected by applying the following procedure in preference order: • **IPv4 endpoint** - The next hop must match the endpoint of the SR policy and the highest numbered color extended community attached to the labeled IPv4 or IPv6 route must match the color of the SR policy. • **null IPv4 endpoint (0.0.0.0)** - The highest numbered color extended community attached to the labeled IPv4 or IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'. • **null IPv6 endpoint (0::0)** - The highest numbered color extended community attached to the labeled IPv4 or IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.

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BGP resolves a labeled IPv6 route with an IPv6 next hop that is not an IPv4-mapped IPv6 address using an SR policy selected by applying the following procedure in preference order:

- **IPv6 endpoint** - The next hop must match the endpoint of the SR policy and the highest numbered color extended community attached to the labeled IPv6 route must match the color of the SR policy.
- **null IPv6 endpoint (0.::0)** - The highest numbered color extended community attached to the labeled IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.
- **null IPv4 endpoint (0.0.0.0)** - The highest numbered color extended community attached to the labeled IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.

When configured to **false**, SR policies are not enabled for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-te *boolean*

Synopsis Use SR-TE tunneling for next-hop resolution

Context **configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter sr-te *boolean*

Tree sr-te

Description When configured to **true**, this command enables the selection of the Segment Routing (SR) tunnel type programmed by a traffic engineered (TE) instance in the TTM for next-hop resolution.

In the case of multiple SR-TE tunnels with the same lowest metric, BGP selects the tunnel with the lowest tunnel ID.

When configured to **false**, the SR tunnel type programmed by a TE instance in the TTM for next-hop resolution is not enabled for selection.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

udp *boolean*

Synopsis Use MPLS over UDP tunneling for next-hop resolution

Context **configure** router *named-item-64* bgp next-hop-resolution labeled-routes transport-tunnel family *keyword* resolution-filter udp *boolean*

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Tree	udp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-bgp-routes

Synopsis	Enter the **use-bgp-routes** context
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes use-bgp-routes
Tree	use-bgp-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6-explicit-null *boolean*

Synopsis	Use BGP routes to resolve address family routes
Context	**configure** router *named-item-64* bgp next-hop-resolution labeled-routes use-bgp-routes label-ipv6-explicit-null *boolean*
Tree	label-ipv6-explicit-null
Description	When configured to **true**, a labeled IPv6 route with the explicit-null label can be resolved by other routes, and also by unlabeled IPv4 routes and unlabeled IPv6 routes that are resolved by static routes, interface routes, or tunnels. Up to four levels of recursive resolution are supported when the top route is a labeled IPv6 route with an explicit-null label. When disabled, a labeled IPv6 route cannot be resolved by other labeled IPv6 routes. A labeled IPv6 route with a regular label (not explicit-null) is never resolved by other labeled IPv6 routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	Policy that filters routes for BGP next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution policy *reference*
Tree	policy
Reference	**configure** policy-options policy-statement *named-item-64*

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Introduced	25.3.R2
Platforms	SAR Gen 2

shortcut-tunnel

Synopsis	Enter the **shortcut-tunnel** context
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel
Tree	shortcut-tunnel
Description	Commands in this context configure the tunnel types that can be used to resolve unlabeled IPv4 and IPv6 BGP routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for shortcut tunnel selection
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword*
Tree	family
Options	ipv4, ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-flex-algo-fallback *boolean*

Synopsis	Enable flexible algorithm fallback
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* allow-flex-algo-fallback *boolean*

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Tree	allow-flex-algo-fallback
Description	When configured to **true**, a BGP router with a Flex-Algorithm action configured (via the **configure policy-options policy-statement entry action flex-algo** command) can resolve to a tunnel with algorithm 0 if no target Flex-Algorithm tunnel is available**.** When configured to **false**, the BGP router can resolve only to the intended Flex-Algorithm tunnel, which may cause traffic loss if no corresponding Flex-Algorithm tunnel is available.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

disallow-igp *boolean*

Synopsis	Do not perform route table lookup to resolve BGP route
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* disallow-igp *boolean*
Tree	disallow-igp
Description	When configured to **true**, no attempt is made to resolve the IPv4 or IPv6 BGP route using route table lookup if no resolving tunnel can be found in the tunnel table. When configured to **false**, route table lookup can be performed if no resolving tunnel is found in the tunnel table.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-strict-tunnel-tagging *boolean*

Synopsis	Consider only LSPs with an admin-tag for next hop
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* enforce-strict-tunnel-tagging *boolean*
Tree	enforce-strict-tunnel-tagging
Description	When configured to **true**, the system only considers LSPs marked with an administrative tag for next-hop resolution. Untagged LSPs are not considered. When configured to **false**, matching admin-tagged RSVP or SR-TE LSPs are used in preference to other LSP types, whether tagged or untagged. If no eligible RSVP or SR-TE LSP exists, the system falls back to using tagged LSPs that are not explicitly excluded by a route admin tag policy and untagged LSPs of other types.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-untagged-route *keyword*

Synopsis	Untagged route type enforcement
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* enforce-untagged-route *keyword*
Tree	enforce-untagged-route
Description	This command configures the enforcement of BGP routes with no administrative tag policy applied by modifying the next-hop resolution behavior for autobind services. If the **untagged-tunnel** option is configured, untagged routes only bind to LSPs with no administrative tag configured. If both tagged and untagged tunnels to the next hop exist, the system only considers the untagged tunnels. If no untagged tunnels to the next hop exist, the resolution of untagged routes fails. The **untagged-tunnel** option can be used in combination with the **enforce-strict-tunnel-tagging** command configured to **true**, in which case tagged routes resolve to tagged LSPs, and untagged routes only resolve to untagged LSPs. When unconfigured, untagged routes can bind to tagged or untagged LSPs.
Options	none – Untagged routes can bind to tagged or untagged LSPs untagged-tunnel – Untagged routes only bind to LSPs without an admin tag
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Resolution mode for binding BGP routes to tunnel types
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution *keyword*
Tree	resolution
Options	none, filter, any
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *boolean*

Synopsis	Use BGP tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter bgp *boolean*
Tree	bgp
Description	When configured to **true**, this command enables the selection of BGP tunneling for next-hop resolution and specifies the IPv4 tunnels created by receiving BGP label-unicast IPv4 routes for /32 IPv4 prefixes. When configured to **false**, BGP tunneling for next-hop resolution is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp *boolean*

Synopsis	Use LDP tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter ldp *boolean*
Tree	ldp
Description	When configured to **true**, BGP selects the LDP FEC that is the longest prefix match to the BGP next-hop address. When configured to **false**, LDP tunneling for next-hop resolution is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter rsvp *boolean*
Tree	rsvp
Description	When configured to **true**, this command enables the selection of RSVP tunneling for next-hop resolution and specifies RSVP tunnels in a tunnel table to IPv4 destinations. This option allows BGP to use the best metric RSVP LSP to the address of the BGP next hop. This address can correspond to the system interface or to another loopback interface of the remote BGP router. In the case of multiple RSVP LSPs with the same lowest metric, BGP selects the LSP with the lowest tunnel ID. When configured to **false**, this command disables the selection of RSVP tunneling for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis *boolean*

Synopsis	Use IS-IS SR tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter sr-isis *boolean*
Tree	sr-isis
Description	When configured to **true**, this command enables the selection of the Segment Routing (SR) tunnel type programmed by an IS-IS instance in the TTM for next-hop resolution of BGP routes. This command allows BGP to use the SR tunnel in the tunnel table submitted by the lowest preference IS-IS instance. In the case of a tie, the IS-IS instance with the lowest metric SR tunnel is selected over the lowest numbered IS-IS instance. When configured to **false**, the SR tunnel type programmed by an IS-IS instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-ospf *boolean*

Synopsis	Use OSPF SR tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter sr-ospf *boolean*
Tree	sr-ospf
Description	When configured to **true**, this command enables the selection of the Segment Routing (SR) tunnel type programmed by an OSPF instance in the TTM for next-hop resolution of BGP routes. This command allows BGP to use the SR tunnel in the tunnel table submitted by the lowest preference OSPF instance. In the case of a tie, the OSPF instance with the lowest metric SR tunnel is selected over the lowest numbered OSPF instance. When configured to **false**, the SR tunnel type programmed by an OSPF instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf3 *boolean*

Synopsis	Use OSPFv3 SR tunneling for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter sr-ospf3 *boolean*
Tree	sr-ospf3
Description	When configured to **true**, this command enables the selection of the IPv6 Segment Routing (SR) tunnel type programmed by an OSPFv3 instance in the TTMv6 for next-hop resolution of BGP routes. This command allows BGP to use the SR tunnel in the tunnel table submitted by the lowest preference OSPFv3 instance. In the case of a tie, the OSPFv3 instance with the lowest metric SR tunnel is selected over the lowest numbered OSPFv3 instance. When configured to **false**, the SR tunnel type programmed by an OSPFv3 instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-policy *boolean*

Synopsis Use SR policies for next-hop resolution

Context **configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter sr-policy *boolean*

Tree sr-policy

Description When configured to **true**, this command enables the use of SR policies to resolve the next hop of BGP routes.

The SR policies are statically configured in the local router or learned through BGP routes (AFI 1/SAFI 73 or AFI 2/SAFI 73). BGP resolves an IPv4 route with an IPv4 next-hop address or an IPv6 route with IPv4-mapped IPv6 next-hop address using an SR policy selected by applying the following procedure in preference order:

- **IPv4 endpoint** - The next hop must match the endpoint of the SR policy and the highest numbered color extended community attached to the IPv4 or IPv6 route must match the color of the SR policy.
- **null IPv4 endpoint (0.0.0.0)** - The highest numbered color extended community attached to the IPv4 or IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.
- **null IPv6 endpoint (0::0)** - The highest numbered color extended community attached to the IPv4 or IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.

BGP resolves an IPv6 route with an IPv6 next hop that is not an IPv4-mapped IPv6 address using an SR policy selected by applying the following procedure in preference order:

- **IPv6 endpoint** - The next hop must match the endpoint of the SR policy and the highest numbered color extended community attached to the IPv6 route must match the color of the SR policy.
- **null IPv6 endpoint (0.::0)** - The highest numbered color extended community attached to the IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.
- **null IPv4 endpoint (0.0.0.0)** - The highest numbered color extended community attached to the IPv6 route must match the color of the SR policy and its color bits must be set to '01' or '10'.

When configured to **false**, SR policies are not enabled for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-te *boolean*

Synopsis Use SR-TE tunneling for next-hop resolution

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Context	**configure** router *named-item-64* bgp next-hop-resolution shortcut-tunnel family *keyword* resolution-filter sr-te *boolean*
Tree	sr-te
Description	When configured to **true**, this command enables the selection of the Segment Routing (SR) tunnel type programmed by a traffic engineered (TE) instance in the TTM for next-hop resolution. In the case of multiple SR-TE tunnels with the same lowest metric, BGP selects the tunnel with the lowest tunnel ID. When configured to **false**, the SR tunnel type programmed by a TE instance in the TTM for next-hop resolution is not enabled for selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-bgp-routes *boolean*

Synopsis	Use BGP routes to resolve BGP next hops
Context	**configure** router *named-item-64* bgp next-hop-resolution use-bgp-routes *boolean*
Tree	use-bgp-routes
Description	This command enables the use of BGP routes to resolve BGP next hops. When this command is enabled, any unlabeled IPv4 or IPv6 BGP route received from a VPRN BGP peer becomes resolvable by up to four other BGP routes in order to resolve the route to a VPRN IP interface. A VPRN BGP route is not resolvable by another VPRN BGP route or by a BGP-VPN route. This command also allows unlabeled IPv4 or IPv6 BGP routes leaked from the GRT with unresolved next hops (in the GRT) to be resolvable by BGP-VPN routes (of the VPRN).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-leaked-routes

Synopsis	Enter the **use-leaked-routes** context
Context	**configure** router *named-item-64* bgp next-hop-resolution use-leaked-routes
Tree	use-leaked-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

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static *boolean*

Synopsis	Use leaked static routes to resolve BGP next hop
Context	**configure** router *named-item-64* bgp next-hop-resolution use-leaked-routes static *boolean*
Tree	static
Description	When configured to **true**, the router allows any non-leaked unlabeled unicast IPv4 or IPv6 route in the BGP RIB to be resolved by a leaked static route with direct next hops. A BGP route resolved this way cannot resolve other routes (including BGP routes) and cannot be redistributed into non-BGP protocols, such as IGP. When configured to **false**, the router prevents the use of leaked static routes to resolve BGP routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-family-policy *reference*

Synopsis	Policy to filter routes for next-hop resolution
Context	**configure** router *named-item-64* bgp next-hop-resolution vpn-family-policy *reference*
Tree	vpn-family-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Use weighted ECMP for next-hop tunnel selection for 6PE
Context	**configure** router *named-item-64* bgp next-hop-resolution weighted-ecmp *boolean*
Tree	weighted-ecmp
Description	When configured to **true**, this command enables weighted ECMP for next-hop tunnel selection for 6PE. When weighted ECMP is enabled, the RSVP-TE tunnel used to forward 6PE packets to the ECMP next hop that is chosen according to the outcome of the hash on the packet at the normalized load-balancing weight of the tunnel. When configured to **false**, weighted ECMP is disabled for next-hop tunnel selection for 6PE.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

optimal-route-reflection

Synopsis	Enter the **optimal-route-reflection** context
Context	**configure** router *named-item-64* bgp optimal-route-reflection
Tree	optimal-route-reflection
Introduced	25.3.R2
Platforms	SAR Gen 2

location [location-id] *number*

Synopsis	Enter the **location** list instance
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number*
Tree	location
Description	Commands in this context configure the location ID for the route reflector. A BGP neighbor can be associated with a location if it is a route-reflector client. Up to three IPv4 addresses and three IPv6 addresses can be specified per location. If the TE DB is unable find a node in its topology database that matches a primary address of the location, it tries to find a node matching a secondary address. If this attempt also fails, the TE DB tries to find a node matching a tertiary address. The IP addresses specified for a location should be topologically “close” to a set of clients that should all receive the same optimal path for that location.
Introduced	25.3.R2
Platforms	SAR Gen 2

[location-id] *number*

Synopsis	Optimal route reflection location ID
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number*
Tree	location
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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primary-ip-address *ipv4-unicast-address*

Synopsis	Primary IPv4 address of the reference location for ORR
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number* primary-ip-address *ipv4-unicast-address*
Tree	primary-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-ipv6-address *ipv6-unicast-address*

Synopsis	Primary IPv6 address of the reference location for ORR
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number* primary-ipv6-address *ipv6-unicast-address*
Tree	primary-ipv6-address
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-ip-address *ipv4-unicast-address*

Synopsis	Secondary IPv4 address of reference location for ORR
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number* secondary-ip-address *ipv4-unicast-address*
Tree	secondary-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-ipv6-address *ipv6-unicast-address*

Synopsis	Secondary IPv6 address of reference location for ORR
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number* secondary-ipv6-address *ipv6-unicast-address*
Tree	secondary-ipv6-address

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Introduced	25.3.R2
Platforms	SAR Gen 2

tertiary-ip-address *ipv4-unicast-address*

Synopsis	Tertiary IPv4 address of the reference location for ORR
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number* tertiary-ip-address *ipv4-unicast-address*
Tree	tertiary-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

tertiary-ipv6-address *ipv6-unicast-address*

Synopsis	Tertiary IPv6 address of the reference location for ORR
Context	**configure** router *named-item-64* bgp optimal-route-reflection location *number* tertiary-ipv6-address *ipv6-unicast-address*
Tree	tertiary-ipv6-address
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** router *named-item-64* bgp optimal-route-reflection spf-wait
Tree	spf-wait
Description	Commands in this context specify the interval between consecutive SPF calculations performed by the TE DB in support of BGP optimal route reflection. The time components implement an exponential back-off algorithm. .
Introduced	25.3.R2
Platforms	SAR Gen 2

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initial-wait *number*

Synopsis	Initial SPF calculation delay after a topology change
Context	**configure** router *named-item-64* bgp optimal-route-reflection spf-wait initial-wait *number*
Tree	initial-wait
Range	1 to 300
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait *number*

Synopsis	Maximum interval between consecutive SPF calculations
Context	**configure** router *named-item-64* bgp optimal-route-reflection spf-wait max-wait *number*
Tree	max-wait
Range	1 to 600
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Delay between first and second SPF calculation
Context	**configure** router *named-item-64* bgp optimal-route-reflection spf-wait second-wait *number*
Tree	second-wait
Range	1 to 300
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound-route-filtering

Synopsis	Enable the **outbound-route-filtering** context
Context	**configure** router *named-item-64* bgp outbound-route-filtering

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Tree	outbound-route-filtering
Description	Commands in this context configure the send and receive capabilities for Outbound Route Filtering (ORF). When unconfigured, the ORF capabilities are not enabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-community

Synopsis	Enable the **extended-community** context
Context	**configure** router *named-item-64* bgp outbound-route-filtering extended-community
Tree	extended-community
Description	Commands in this context configure the ORF send and receive capabilities based on Extended Communities. When this context is unconfigured, the ORF capabilities for Extended Communities is not enabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-orf *boolean*

Synopsis	Negotiate with peer to accept BGP ORF filters
Context	**configure** router *named-item-64* bgp outbound-route-filtering extended-community accept-orf *boolean*
Tree	accept-orf
Description	When configured to **true**, the receive capability in the BGP ORF is negotiated with a peer and ORF filters can be accepted from peers. When configured to **false**, the accept capability in the BGP ORF is removed and any existing ORF filters that are currently in place are cleared.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-orf

Synopsis	Enable the **send-orf** context

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Context	**configure** router *named-item-64* bgp outbound-route-filtering extended-community send-orf
Tree	send-orf
Description	Commands in this context allow BGP to negotiate the send capability in the ORF negotiation with a peer. The send capability also causes the router to send a community filter, prefix filter, or AS path filter configured as an inbound filter on the BGP session to its peer as an ORF Action ADD. When this context in unconfigured, ORF send capability is not enabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target [community-name] *named-item*

Synopsis	Add a list entry for **route-target**
Context	**configure** router *named-item-64* bgp outbound-route-filtering extended-community send-orf route-target *named-item*
Tree	route-target
Introduced	25.3.R2
Platforms	SAR Gen 2

[**community-name**] *named-item*

Synopsis	Route target community name
Context	**configure** router *named-item-64* bgp outbound-route-filtering extended-community send-orf route-target *named-item*
Tree	route-target
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

override-tunnel-elc *boolean*

Synopsis	Enable entropy label capability on BGP tunnels
Context	**configure** router *named-item-64* bgp override-tunnel-elc *boolean*
Tree	override-tunnel-elc

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Description	When configured to **true**, this command renders all far ends for BGP tunnels as entropy-label-capable, regardless of any received capability signaling. This ensures that the entropy label will be inserted on BGP tunnels in the absence of capability signaling support by the far end. This is a system-wide configuration, since efficient entropy label operation requires that all LSRs in a network support entropy labels. This command should be used with care, particularly in inter-AS use cases, as entropy label capability may differ between domains. When configured to **false**, this command disables all far ends for BGP tunnels as entropy-label-capable.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu-discovery *boolean*

Synopsis	Enable Path MTU Discovery
Context	**configure** router *named-item-64* bgp path-mtu-discovery *boolean*
Tree	path-mtu-discovery
Description	When configured to **true**, Path MTU Discovery (PMTUD) is activated toward an IPv4 BGP neighbor. The Don't Fragment (DF) bit is set in the IP header of all IPv4 packets sent to the peer. If any device along the path toward the peer cannot forward the packet because the IP MTU of the interface is smaller than the IP packet size, the device drops the packet and sends an ICMP or ICMPv6 error message encoding the interface MTU. When the router receives the ICMP or ICMPv6 message, it lowers the TCP maximum segment size limit from the previous value to accomodate the IP MTU constraint. When configured to **false**, PMTUD is disabled and there is no TCP MSS configuration to associate with a BGP neighbor (in either the BGP configuration or the first-hop IP interface configuration). The router advertises a TCP MSS option of only 1024 bytes, limiting the received TCP segments to that size.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-tracking *boolean*

Synopsis	Enable BGP peer tracking
Context	**configure** router *named-item-64* bgp peer-ip-tracking *boolean*
Tree	peer-ip-tracking
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

peer-tracking-policy *reference*

Synopsis	Policy for BGP peer tracking on router instance
Context	**configure** router *named-item-64* bgp peer-tracking-policy *reference*
Tree	peer-tracking-policy
Description	This command specifies the name of a policy statement to use with the BGP peer-tracking function on BGP sessions where peer tracking is enabled. When unconfigured, the default peer-tracking policy allows any type of route to match the neighbor IP address except aggregate routes and LDP shortcut routes. Peer tracking should be used with caution. The peer-tracking policy should only permit one of direct-interface or direct routes to be advertised to a BGP peer. Advertising both routes causes the best route to oscillate.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference for routes learned from all peers
Context	**configure** router *named-item-64* bgp preference *number*
Tree	preference
Description	This command configures the route preference for routes learned from the configured peers. The lower the preference value, the higher the chance of the route being the active route. The router assigns BGP routes the highest default preference as compared to routes that are direct, static or learned via MPLS or OSPF.
Range	1 to 255
Default	170
Introduced	25.3.R2
Platforms	SAR Gen 2

purge-timer *number*

Synopsis	Maximum time before stale routes are purged

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Context	**configure** router *named-item-64* bgp purge-timer *number*
Tree	purge-timer
Description	This command configures the maximum time before stale routes are purged. When a route refresh request is sent to a peer for VPN-IP routes received from that peer (in the RIB-IN), the routes are set to stale and the purge timer is started. If the routes are not updated (refreshed) before the purge timer expires, the routes are removed.
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

rapid-update

Synopsis	Enter the **rapid-update** context
Context	**configure** router *named-item-64* bgp rapid-update
Tree	rapid-update
Description	Commands in this context specify the address families that are configured to support the rapid update functionality. The rapid update functionality overrides the remaining time on a peer's MRAI timer and immediately sends routes belonging the specified address families (and all other pending updates) to the peers receiving these routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn *boolean*

Synopsis	Include EVPN address family routes
Context	**configure** router *named-item-64* bgp rapid-update evpn *boolean*
Tree	evpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Include IPv4 address family routes

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Context	**configure** router *named-item-64* bgp rapid-update ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Include IPv6 address family routes
Context	**configure** router *named-item-64* bgp rapid-update ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

l2-vpn *boolean*

Synopsis	Include L2 VPN address family routes
Context	**configure** router *named-item-64* bgp rapid-update l2-vpn *boolean*
Tree	l2-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Include labeled IPv4 address family routes
Context	**configure** router *named-item-64* bgp rapid-update label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv6 *boolean*

Synopsis	Include labeled IPv6 address family routes
Context	**configure** router *named-item-64* bgp rapid-update label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv4 *boolean*

Synopsis	Include multicast VPN IPv4 address family routes
Context	**configure** router *named-item-64* bgp rapid-update mcast-vpn-ipv4 *boolean*
Tree	mcast-vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-vpn-ipv6 *boolean*

Synopsis	Include multicast VPN IPv6 address family routes
Context	**configure** router *named-item-64* bgp rapid-update mcast-vpn-ipv6 *boolean*
Tree	mcast-vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mdt-safi *boolean*

Synopsis	Include MDT SAFI address family routes
Context	**configure** router *named-item-64* bgp rapid-update mdt-safi *boolean*
Tree	mdt-safi
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

vpn-ipv4 *boolean*

Synopsis	Include VPN IPv4 address family routes
Context	**configure** router *named-item-64* bgp rapid-update vpn-ipv4 *boolean*
Tree	vpn-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-ipv6 *boolean*

Synopsis	Include VPN IPv6 address family routes
Context	**configure** router *named-item-64* bgp rapid-update vpn-ipv6 *boolean*
Tree	vpn-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rapid-withdrawal *boolean*

Synopsis	Send BGP withdrawal UPDATE messages immediately
Context	**configure** router *named-item-64* bgp rapid-withdrawal *boolean*
Tree	rapid-withdrawal
Description	When configured to **true**, UPDATE messages containing withdrawn NLRI are sent immediately to a peer without waiting for the MRAI timer to expire. UPDATE messages containing reachable NLRI continue to wait for the MRAI timer to expire, or for a rapid update trigger. When configured to **false**, withdrawal processing continues with the normal behavior.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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remove-private

Synopsis	Enable the **remove-private** context
Context	**configure** router *named-item-64* bgp remove-private
Tree	remove-private
Introduced	25.3.R2
Platforms	SAR Gen 2

limited *boolean*

Synopsis	Remove private ASNs up to first public ASN encountered
Context	**configure** router *named-item-64* bgp remove-private limited *boolean*
Tree	limited
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *boolean*

Synopsis	Replace private ASN with global ASN before advertising
Context	**configure** router *named-item-64* bgp remove-private replace *boolean*
Tree	replace
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

skip-peer-as *boolean*

Synopsis	Keep private ASN if AS-PATH contains eBGP peer's ASN
Context	**configure** router *named-item-64* bgp remove-private skip-peer-as *boolean*
Tree	skip-peer-as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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rib-management

Synopsis	Enter the **rib-management** context
Context	**configure** router *named-item-64* bgp rib-management
Tree	rib-management
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* bgp rib-management ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-import

Synopsis	Enter the **leak-import** context
Context	**configure** router *named-item-64* bgp rib-management ipv4 leak-import
Tree	leak-import
Description	Commands in this context specify route policies that control the importation of leak-eligible routes from the BGP RIB of another routing instance into the unlabeled-IPv4 RIB of the base router. To leak a route from one routing instance to another, the origin and destination RIB types must be the same; for example, it is not possible to leak a route from an unlabeled-IPv4 RIB of a VPRN into the labeled-IPv4 RIB of the base router.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Leak import policy name
Context	**configure** router *named-item-64* bgp rib-management ipv4 leak-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies one or more leak import policies.

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	Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** router *named-item-64* bgp rib-management ipv4 route-table-import
Tree	route-table-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** router *named-item-64* bgp rib-management ipv4 route-table-import policy-name *reference*
Tree	policy-name
Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used. Aggregate routes are always imported into each RIB, independent of the specified policy. Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes. When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.

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Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* bgp rib-management ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-import

Synopsis	Enter the **leak-import** context
Context	**configure** router *named-item-64* bgp rib-management ipv6 leak-import
Tree	leak-import
Description	Commands in this context specify route policies that control the importation of leak-eligible routes from the BGP RIB of another routing instance into the unlabeled-IPv6 RIB of the base router. To leak a route from one routing instance to another, the origin and destination RIB types must be the same; for example, it is not possible to leak a route from an unlabeled-IPv4 RIB of a VPRN into the labeled-IPv4 RIB of the base router.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Leak import policy name
Context	**configure** router *named-item-64* bgp rib-management ipv6 leak-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies one or more leak import policies. Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255

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String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** router *named-item-64* bgp rib-management ipv6 route-table-import
Tree	route-table-import
Description	This command enables the context to specify the name of a route to control the importation of active routes from the IP route table into one of the BGP RIBs. If this command is configured, then routes dropped or rejected by the configured policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by this command then the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used. Aggregate routes are always imported into each RIB, independent of this command's policy. Route modifications specified in the actions of this command's policy are ignored and have no effect on the imported routes. If this command is not configured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** router *named-item-64* bgp rib-management ipv6 route-table-import policy-name *reference*
Tree	policy-name
Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers

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associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used.

Aggregate routes are always imported into each RIB, independent of the specified policy.

Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes.

When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.

Reference **configure** policy-options policy-statement *named-item-64*

Introduced 25.3.R2

Platforms SAR Gen 2

label-ipv4

Synopsis Enter the **label-ipv4** context

Context **configure** router *named-item-64* bgp rib-management label-ipv4

Tree label-ipv4

Introduced 25.3.R2

Platforms SAR Gen 2

leak-import

Synopsis Enter the **leak-import** context

Context **configure** router *named-item-64* bgp rib-management label-ipv4 leak-import

Tree leak-import

Description Commands in this context specify route policies that control the importation of leak-eligible routes from the BGP RIB of another routing instance into the labeled-IPv4 RIB of the base router. To leak a route from one routing instance to another, the origin and destination RIB types must be the same; for example, it is not possible to leak a route from an unlabeled-IPv4 RIB of a VPRN into the labeled-IPv4 RIB of the base router.

Introduced 25.3.R2

Platforms SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis Leak import policy name

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Context	**configure** router *named-item-64* bgp rib-management label-ipv4 leak-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies one or more leak import policies. Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** router *named-item-64* bgp rib-management label-ipv4 route-table-import
Tree	route-table-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** router *named-item-64* bgp rib-management label-ipv4 route-table-import policy-name *reference*
Tree	policy-name
Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used. Aggregate routes are always imported into each RIB, independent of the specified policy.

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Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes.

When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.

Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6

Synopsis	Enter the **label-ipv6** context
Context	**configure** router *named-item-64* bgp rib-management label-ipv6
Tree	label-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** router *named-item-64* bgp rib-management label-ipv6 route-table-import
Tree	route-table-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** router *named-item-64* bgp rib-management label-ipv6 route-table-import policy-name *reference*
Tree	policy-name
Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used.

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Aggregate routes are always imported into each RIB, independent of the specified policy.

Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes.

When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.

Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-install *boolean*

Synopsis	Install all IPv4 and IPv6 BGP routes in FIB and RTM
Context	**configure** router *named-item-64* bgp route-table-install *boolean*
Tree	route-table-install
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target-list [community-name] *named-item*

Synopsis	Add a list entry for **route-target-list**
Context	**configure** router *named-item-64* bgp route-target-list *named-item*
Tree	route-target-list
Description	This command specifies a route target to be accepted from or advertised to peers. This command is only applicable if the router is a route-reflector server.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**community-name**] *named-item*

Synopsis	Route target community name
Context	**configure** router *named-item-64* bgp route-target-list *named-item*
Tree	route-target-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *ipv4-address*

Synopsis	Router ID for the BGP instance in the AS
Context	**configure** router *named-item-64* bgp router-id *ipv4-address*
Tree	router-id
Description	This command specifies the router ID to be used with the BGP instance. Changing the BGP router ID on an active BGP instance causes the BGP instance to restart with the new router ID. When an SR OS is configured with an IPv6-only BOF and no IPv4 system interface address, explicitly-defined IPv4 router IDs are required for BGP as there is no mechanism to derive the router ID from an IPv6 system interface address.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

rr-vpn-forwarding *boolean*

Synopsis	Allow route reflector to forward VPN-IP routes
Context	**configure** router *named-item-64* bgp rr-vpn-forwarding *boolean*
Tree	rr-vpn-forwarding
Description	When configured to **true**, the route reflector resolves VPN-IPv4 and VPN-IPv6 routes, sets itself as the next hop, and generates new labels for all the resolved routes. During this process, all received VPN-IP routes, regardless of route target, are imported into the dummy VRF, where the BGP next hops are resolved. The routes are resolved to next-hop-self, and BGP allocates new VPRN service-label values for the routes, which are then advertised to peers. The **transport-tunnel** command under the **configure router bgp next-hop-resolution labeled-routes** context determines what types of tunnels are eligible to resolve the next hops. If a received VPN-IP route from IBGP peer X is resolved and selected as the best path so that it can be re-advertised to an IBGP peer Y, and the BGP next-hop is modified toward peer Y (by using the **next-hop-self** command in Y's group or neighbor context or by using a next-hop action in an export policy applied to Y), BGP allocates a new VPRN service label value for the route, signals that new label value to Y, and programs the IOM to do the corresponding label swap operation. The supported combinations of X and Y are outlined below:

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- from X (client) to Y (client)
- from X (client) to Y (non-client)
- from X (non-client) to Y (client)

When configured to **false**, the routes are re-advertised without signaling new VPRN labels, even if the BGP next hop is changed.

Nokia recommends setting this command to **false** for scaling and convergence reasons.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-routing

Synopsis	Enter the **segment-routing** context
Context	**configure** router *named-item-64* bgp segment-routing
Tree	segment-routing
Description	Commands in this context configure options related to BGP segment routing (including prefix SID support).
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of segment routing
Context	**configure** router *named-item-64* bgp segment-routing admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-sid-range

Synopsis	Enable the **prefix-sid-range** context
Context	**configure** router *named-item-64* bgp segment-routing prefix-sid-range
Tree	prefix-sid-range
Introduced	25.3.R2

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Platforms	SAR Gen 2

global

Synopsis	Allow label allocation from entire SRBG space
Context	**configure** router *named-item-64* bgp segment-routing prefix-sid-range global
Tree	global
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

max-index *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Last label value available in contiguous range
Context	**configure** router *named-item-64* bgp segment-routing prefix-sid-range max-index *number*
Tree	max-index
Range	0 to 1048575
Default	1
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

start-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	First label value available in a contiguous range
Context	**configure** router *named-item-64* bgp segment-routing prefix-sid-range start-label *number*
Tree	start-label

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Range	0 to 1048575
Default	0
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

selective-label-ip *keyword*

Synopsis	Label IP routes installed for local use on NHS router
Context	**configure** router *named-item-64* bgp selective-label-ip *keyword*
Tree	selective-label-ip
Description	This command enables selective installation of labeled unicast routes for resolution by local services and IP shortcuts on a labeled unicast Next-hop=self router. This command is supported for labeled unicast for both IPv4 and IPv6 routes. The **no-install** option installs labeled IP routes that are required by services. This option conserves labeled route table space in addition to RTM table space on BGP-LU next-hop-self route reflectors. The **route-table-install-only** option ensures that the labeled unicast routes are installed in the RTM in full. When **no-install** is specified, the download of labeled unicast routes for NHLFE resolution by services continues.
Options	no-install, route-table-install-only
Introduced	25.3.R2
Platforms	SAR Gen 2

selective-label-ip-prioritization *boolean*

Synopsis	Enable BGP selective prioritization for labeled routes
Context	**configure** router *named-item-64* bgp selective-label-ip-prioritization *boolean*
Tree	selective-label-ip-prioritization
Description	When this command is set to **true**, every labeled IPv4 and IPv6 route that is received and potentially usable by a local service is automatically prioritized for fast control plane reconvergence. When the reachability of a BGP next-hop changes, the labeled IPv4 and IPv6 routes are updated into the route table first, along with other routes manually tagged as high priority by import policies. A /32 or /128 labeled unicast route (and associated BGP-LU tunnel) is determined to be potentially usable by a local service if one of the following conditions applies: • the route matches the far-end address of a user-provisioned SDP of a Layer 2 service and the SDP is configured to use BGP tunnels as transport

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- the route matches the BGP next-hop address of a BGP-EVPN or IP VPN route, and this VPN route is either imported into a local service or readvertised by the router acting as a next-hop-self route reflector or a model-B ASBR

When this command is set to **false,** selective-label IP prioritization for BGP is not used.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

selective-label-ipv4-install *boolean*

Synopsis	Enable selective download for BGP label-ipv4 routes
Context	**configure** router *named-item-64* bgp selective-label-ipv4-install *boolean*
Tree	selective-label-ipv4-install
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-communities

Synopsis	Enter the **send-communities** context
Context	**configure** router *named-item-64* bgp send-communities
Tree	send-communities
Introduced	25.3.R2
Platforms	SAR Gen 2

extended *boolean*

Synopsis	Advertise the Extended Communities attribute to peers
Context	**configure** router *named-item-64* bgp send-communities extended *boolean*
Tree	extended
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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large *boolean*

Synopsis	Advertise the Large Communities attribute to peers
Context	**configure** router *named-item-64* bgp send-communities large *boolean*
Tree	large
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Advertise the Communities attribute to peers
Context	**configure** router *named-item-64* bgp send-communities standard *boolean*
Tree	standard
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-default

Synopsis	Enter the **send-default** context
Context	**configure** router *named-item-64* bgp send-default
Tree	send-default
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policy name
Context	**configure** router *named-item-64* bgp send-default export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *boolean*

Synopsis	Enable IPv4 family type
Context	**configure** router *named-item-64* bgp send-default ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable IPv6 family type
Context	**configure** router *named-item-64* bgp send-default ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Prevent routes being reflected back to best-route peer
Context	**configure** router *named-item-64* bgp split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split-horizon. This command prevents routes from being reflected back to a peer that sends the best route. It applies to routes of all address families and to any type of sending peer; confed-EBGP, EBGP and IBGP. Enabling the split-horizon functionality may have a detrimental impact on peer and route scaling and should only be used when absolutely necessary. When configured to **false**, the use of split-horizon is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-policy-import *boolean*

Synopsis	Import all segment routing policies into the BGP RIB
Context	**configure** router *named-item-64* bgp sr-policy-import *boolean*
Tree	sr-policy-import
Description	When configured to **true**, statically-configured non-local segment routing policies from the segment routing database are imported into the BGP RIB so that they can be advertised as originated routes toward BGP peers supporting segment routing policies (**sr-policy-ipv4** IP family type). When configured to **false**, the SR policies are not imported into the BGP RIB.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

subconfed-vpn-forwarding *boolean*

Synopsis	Allow subconfed route resolution, next hop and labels
Context	**configure** router *named-item-64* bgp subconfed-vpn-forwarding *boolean*
Tree	subconfed-vpn-forwarding
Description	When this is set to **true**, the base router BGP instance retains all received VPN-IPv4 and VPN-IPv6 routes, including those with route targets not matching any VRF import policy of any locally configured VPRN. In addition, when the base router BGP is configured to apply a **next-hop-self** command to a peer of any type (EBGP, IBGP, or confed-EBGP), VPN-IPv4 and VPN-IPv6 routes are advertised to the peer with a new BGP label, next hop, and label-swap forwarding entry. These behaviors described above are applied when the **enable-inter-as-vpn** or **enable-rr-vpn-forwarding** commands are enabled in the **configure router bgp context**, in the same BGP instance. This applies regardless of whether the base router has a confederation configuration. When this command is set to **false**, subconfederation VPN forwarding is not used.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size override
Context	**configure** router *named-item-64* bgp tcp-mss *number*

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Tree	tcp-mss
Description	This command configures an override for the TCP maximum segment size to use with a specific peer or set of peers (depending on the scope of the command). The configured value controls two properties of the TCP connection as follows: TCP MSS option - The router advertises the TCP MSS option value in the TCP SYN packet it sends as part of the 3-way handshake. The advertised value may be lower than the configured value, depending on the IP MTU of the first hop IP interface. The peers must abide by this value when sending TCP segments to the local router. TCP maximum segment size - The actual transmitted size may be lower than the configured value, depending on the TCP MSS option value signaled by the peers, the effect of path MTU discovery, or other factors.
Range	384 to 9746
Introduced	25.3.R2
Platforms	SAR Gen 2

third-party-nexthop *boolean*

Synopsis	Apply third-party next-hop processing to EBGP peers
Context	**configure** router *named-item-64* bgp third-party-nexthop *boolean*
Tree	third-party-nexthop
Description	When configured to **true**, this command enables the router to send third-party next hop to EBGP peers in the same subnet as the source peer. The address family of the transport must match the address family of the route. When an IPv4 or IPv6 route is received from one EBGP peer and advertised to another EBGP peer in the same IP subnet, the BGP next hop is left unchanged. When configured to **false**, third-party next-hop processing is disabled and the next hop carries the IP address of the interface used to establish the TCP connection to the peer.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-apply-export *boolean*

Synopsis	Apply base-instance BGP export policies to VPN routes
Context	**configure** router *named-item-64* bgp vpn-apply-export *boolean*
Tree	vpn-apply-export
Description	When configured to **true**, base-instance BGP export route policies are applied to VPN-IPv4/6, MVPN-IPv4/6, L2-VPN, MDT-SAFI, MCAST-VPN-IPv4, and EVPN routes.

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When configured to **false**, the export policies are not applied.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-apply-import *boolean*

Synopsis	Apply base-instance import route policies to VPN routes
Context	**configure** router *named-item-64* bgp vpn-apply-import *boolean*
Tree	vpn-apply-import
Description	When configured to **true**, base-instance BGP import route policies are applied to VPN-IPv4/6, MVPN-IPv4/6, L2-VPN, MDT-SAFI, MCAST-VPN-IPv4, and EVPN routes. When configured to **false**, the import policies are not applied.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

confederation

Synopsis	Enter the **confederation** context
Context	**configure** router *named-item-64* confederation
Tree	confederation
Description	Commands in this context configure members that are to be part of a confederation. Creating confederation autonomous systems within as AS can be used to reduce the number of IBGP sessions required within an AS.
Introduced	25.3.R2
Platforms	SAR Gen 2

confed-as-num *number*

Synopsis	Confederation AS number
Context	**configure** router *named-item-64* confederation confed-as-num *number*
Tree	confed-as-num
Range	1 to 4294967295
Introduced	25.3.R2

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Platforms	SAR Gen 2

members [as-number] *number*

Synopsis	Add a list entry for **members**
Context	**configure** router *named-item-64* confederation members *number*
Tree	members
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**as-number**] *number*

Synopsis	Confederation member AS number
Context	**configure** router *named-item-64* confederation members *number*
Tree	members
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-server

Synopsis	Enter the **dhcp-server** context

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Context	**configure** router *named-item-64* dhcp-server
Tree	dhcp-server
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv4 [name] *named-item*

Synopsis	Enter the **dhcpv4** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	DHCP server name
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP server
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

failover

Synopsis	Enter the **failover** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover
Tree	failover
Description	Commands in this context define DHCP failover where two DHCP servers manage the same pool of addresses, enabling them to share the load to assign leases for pool and provide backup for each in the event of network outages.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner

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Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

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partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds
Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover peer *reference*
Tree	peer
Description	Commands in this context define the peer-related parameters for DHCP failover. DHCP leases can be synchronized at the level of the DHCP server or pool. The pair of synchronizing servers or pools is identified by a tag. The synchronization information is carried over the Multi-Chassis Synchronization (MCS) link between the two peers. The MCS link is a logical IP or MPLS link. MCS runs over TCP port 45067, using either data traffic or keepalives to detect failure on the communication link between the two nodes. In the absence of any MCS data traffic for more than 0.5 seconds, MCS sends its own keepalive to the peer. If a reply is not received within 3 seconds, MCS declares its operational state as down and the DB sync state as out-of-sync. MCS consequently notifies its clients, including the DHCP server. It can take up to 3 seconds before the DHCP client realizes that the inter-chassis link has failed.

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The link failure does not necessarily imply the same failed state for the access links. It is possible, although unlikely, that both access links are operational while the inter-chassis communication link is broken. In this case, the two redundant nodes can become isolated from each other in the network. For this reason, it is important that the MCS link be highly redundant.

Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* failover startup-wait-time *number*
Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

force-renews *boolean*

Synopsis	Send FORCERENEW messages to force renewals of leases
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* force-renews *boolean*
Tree	force-renews
Description	When configured to **true**, FORCERENEW messages are enabled for DHCP.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-hold

Synopsis	Enter the **lease-hold** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* lease-hold
Tree	lease-hold
Introduced	25.3.R2
Platforms	SAR Gen 2

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additional-scenarios

Synopsis	Enter the **additional-scenarios** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios
Tree	additional-scenarios
Description	Commands in this context configure additional types of leases or triggers that cause the system to hold up leases.
Introduced	25.3.R2
Platforms	SAR Gen 2

fwa-address-assignment *boolean*

Synopsis	Apply lease hold timer to FWA session
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios fwa-address-assignment *boolean*
Tree	fwa-address-assignment
Description	When configured to **true**, the router applies the lease hold timer to non-deferred IP addresses or SLAAC prefixes assigned to FWA sessions.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

internal-lease-ipsec *boolean*

Synopsis	Apply the lease hold timer to local IPsec clients
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios internal-lease-ipsec *boolean*
Tree	internal-lease-ipsec
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

solicited-release *boolean*

Synopsis	Apply lease hold timer for solicited releases

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Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios solicited-release *boolean*
Tree	solicited-release
Description	This command enables the server to hold up a lease even for a solicited release, for example, when the server receives a normal DHCP release message.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Lease hold time
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* lease-hold time *number*
Tree	time
Range	1 to 631152000
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [pool-name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item*
Tree	pool
Description	Commands in this context configure a DHCP address pool on the router.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool-name**] *named-item*

Synopsis	DHCP server pool name
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

failover

Synopsis	Enter the **failover** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover
Tree	failover
Description	Commands in this context define DHCP failover where two DHCP servers manage the same pool of addresses, enabling them to share the load to assign leases for pool and provide backup for each in the event of network outages.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

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partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds
Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Description	Commands in this context configure peer-related parameters for DHCP failover. DHCP leases can be synchronized at the level of the DHCP server or pool. The pair of synchronizing servers or pools is identified by a tag. The synchronization information is carried over the Multi-Chassis Synchronization (MCS) link between the two peers. The MCS link is a logical IP or MPLS link. MCS runs over TCP port 45067, using either data traffic or keepalives to detect failure on the communication link between the two nodes. In the absence of any MCS data traffic for more than 0.5 seconds, MCS sends its own keepalive to the peer. If a reply is not received within 3 seconds, MCS declares its operational state as down and the DB sync state as out-of-sync. MCS consequently notifies its clients, including the DHCP server. It can take up to 3 seconds before the DHCP client realizes that the inter-chassis link has failed.

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The link failure does not necessarily imply the same failed state for the access links. It is possible, although unlikely, that both access links are operational while the inter-chassis communication link is broken. In this case, the two redundant nodes can become isolated from each other in the network. For this reason, it is important that the MCS link be highly redundant.

Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* failover startup-wait-time *number*
Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lease-time *number*

Synopsis	Maximum lease time
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* max-lease-time *number*
Tree	max-lease-time
Range	10 to 315446399
Units	seconds
Default	864000
Introduced	25.3.R2
Platforms	SAR Gen 2

min-lease-time *number*

Synopsis	Minimum lease time
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* min-lease-time *number*
Tree	min-lease-time

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Range	10 to 315446399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-free

Synopsis	Enter the **minimum-free** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free
Tree	minimum-free
Description	Commands in this context specify the minimum number of free addresses in this pool.
Introduced	25.3.R2
Platforms	SAR Gen 2

absolute *number*

Synopsis	Minimum number of free addresses in this pool or subnet
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free absolute *number*
Tree	absolute
Range	0 to 255
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate notification when addresses are depleted
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free event-when-depleted *boolean*
Tree	event-when-depleted
Description	When configured to **true**, a system-generated event is generated when all available addresses in the pool or subnet of a local DHCP server are depleted.

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When configured to **false**, no action is taken when all available addresses in the pool or subnet of a local DHCP server are depleted.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

percent *number*

Synopsis Minimum free addresses as a percentage

Context **configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free percent *number*

Tree percent

Range 0 to 100

Default 1

Notes The following elements are part of a choice: **absolute** or **percent**.

Introduced 25.3.R2

Platforms SAR Gen 2

nak-non-matching-subnet *boolean*

Synopsis Send NAK if no match for request address pool range

Context **configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* nak-non-matching-subnet *boolean*

Tree nak-non-matching-subnet

Description When configured to **true**, a NAK response when the local DHCPv4 server receives a DHCP request with option 50 (the client is trying to request a previously allocated message). If the address-allocation algorithm uses a pool that does not contain the requested address, the system returns the DHCP NAK.

When configured to **false** or unconfigured, the system drops the DHCP packet.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

offer-time *number*

Synopsis Time interval during which a DHCP offer remains valid

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Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* offer-time *number*
Tree	offer-time
Range	10 to 600
Units	seconds
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options
Tree	options
Description	Commands in this context define DHCPv4 pool options.
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Description	This command configures DHCP options at the pool level. The pool options can be overruled by the value of the same option in the local user database.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send identification strings to client
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option

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Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time duration
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Remove DHCP option from configuration

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Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-address *ipv4-address*

Synopsis	DHCP option specified as a list of IPv4 addresses
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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netbios-node-type *keyword*

Synopsis	DHCP option specified as a NetBIOS node type
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* netbios-node-type *keyword*
Tree	netbios-node-type
Options	b-node, p-node, m-node, h-node
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subnet [ipv4-prefix] *ipv4-unicast-prefix*

Synopsis	Enter the **subnet** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix*
Tree	subnet
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-prefix**] *ipv4-unicast-prefix*

Synopsis	IPv4 prefix for the subnet
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix*
Tree	subnet
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address-range [start] *ipv4-unicast-address* end *ipv4-unicast-address*

Synopsis	Enter the **address-range** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address*

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Tree	address-range
Description	This command configures the range of IP addresses to be served from the pool subnet. The range includes all the IP addresses between the specified start and end addresses, other than specifically excluded addresses. The start and end addresses must be unique within the subnet.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *ipv4-unicast-address*

Synopsis	Lower bound of the IP address range
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Description	This command specifies the start of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-unicast-address*

Synopsis	Upper bound of the IP address range
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Description	This command specifies the end of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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failover-control-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Failover control type for this range
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address* failover-control-type *keyword*
Tree	failover-control-type
Options	local, remote, access-driven
Default	local
Introduced	25.3.R2
Platforms	SAR Gen 2

drain *boolean*

Synopsis	Prevent new lease assignment from this subnet
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* drain *boolean*
Tree	drain
Description	When configured to **true**, new leases cannot be assigned and existing leases are kept up until they are released. When configured to **false**, the subnet is active and new leases can be assigned.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-addresses [start] *ipv4-unicast-address* end *ipv4-unicast-address*

Synopsis	Add a list entry for **exclude-addresses**
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* exclude-addresses *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	exclude-addresses
Description	This command configures an IP address to be excluded from the pool of IP addresses in the subnet.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *ipv4-unicast-address*

Synopsis	Lower bound of the IP address range
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* exclude-addresses *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	exclude-addresses
Description	This command specifies the start of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-unicast-address*

Synopsis	Upper bound of the IP address range
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* exclude-addresses *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	exclude-addresses
Description	This command specifies the end of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-declined *number*

Synopsis	Maximum number of declined addresses allowed

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Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* maximum-declined *number*
Tree	maximum-declined
Max. range	0 to 4294967295
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-free

Synopsis	Enter the **minimum-free** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free
Tree	minimum-free
Description	Commands in this context specify the minimum number of free addresses in this pool.
Introduced	25.3.R2
Platforms	SAR Gen 2

absolute *number*

Synopsis	Minimum number of free addresses in this pool or subnet
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free absolute *number*
Tree	absolute
Range	0 to 255
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate notification when addresses are depleted
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free event-when-depleted *boolean*
Tree	event-when-depleted

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Description	When configured to **true**, a system-generated event is generated when all available addresses in the pool or subnet of a local DHCP server are depleted. When configured to **false**, no action is taken when all available addresses in the pool or subnet of a local DHCP server are depleted.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

percent *number*

Synopsis	Minimum free addresses as a percentage
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free percent *number*
Tree	percent
Range	0 to 100
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)*
Tree	option

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Description	This command configures DHCP options at the pool subnet level. The options can be overruled by the value of the same option in the local user database.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send identification strings to client
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)*
Tree	option
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* duration *number*

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Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-address *ipv4-address*

Synopsis	DHCP option specified as a list of IPv4 addresses
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* ipv4-address *ipv4-address*

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Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

netbios-node-type *keyword*

Synopsis	DHCP option specified as a NetBIOS node type
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* netbios-node-type *keyword*
Tree	netbios-node-type
Options	b-node, p-node, m-node, h-node
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-selection

Synopsis	Enter the **pool-selection** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool-selection
Tree	pool-selection
Introduced	25.3.R2
Platforms	SAR Gen 2

use-gi-address

Synopsis	Enable the **use-gi-address** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool-selection use-gi-address
Tree	use-gi-address

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Description	Commands in this context configure gateway interface (GI) address matching. When configured, the pool can be used for address matching even if a subnet is not found. If the local user database name is not used, addresses are provided only by GI. If a user must be blocked from getting an address, the server maps to a local user database and configures the user with no address. A pool can include multiple subnets. Since the GI is shared by multiple subnets in a subscriber interface, the pool can provide IP addresses from any of the subnets included when the GI is matched to one of its subnets. This allows a pool to be created that represents a sub-net.
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	GI address-matching scope
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool-selection use-gi-address scope *keyword*
Tree	scope
Options	subnet, pool
Default	subnet
Introduced	25.3.R2
Platforms	SAR Gen 2

use-pool-from-client

Synopsis	Enable the **use-pool-from-client** context
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool-selection use-pool-from-client
Tree	use-pool-from-client
Introduced	25.3.R2
Platforms	SAR Gen 2

delimiter *string-not-all-spaces*

Synopsis	Delimiter to combine primary and secondary pool names
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* pool-selection use-pool-from-client delimiter *string-not-all-spaces*
Tree	delimiter

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Description	This command configures a single ASCII character that separates the pool names in DHCP vendor-specific option 82, which identifies the address pool to be used for this client.
String length	1
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

user-db *reference*

Synopsis	Local user database for authentication
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* user-db *reference*
Tree	user-db
Reference	**configure** subscriber-mgmt local-user-db *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

user-identification *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	User identification method for the DHCP server
Context	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item* user-identification *keyword*
Tree	user-identification
Options	mac-circuit-id, client-id, mac, circuit-id, remote-id
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv6 [name] *named-item*

Synopsis	Enter the **dhcpv6** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6

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Description	Commands in this context configure DHCPv6 parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	DHCP server name
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP server
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-provisioned *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Auto-provision the pools of this server
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* auto-provisioned *boolean*
Tree	auto-provisioned
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

defaults

Synopsis	Enter the **defaults** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults
Tree	defaults
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)*
Tree	option
Description	This command configures DHCP options at the pool level. The pool options defined here can be overruled by the value of the same option in the local user database.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send as identification string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)*
Tree	option

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Range	1 to 65535
Options	dns-server, domain-name
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-string *string*

Synopsis	DHCP option specified as a domain name
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* domain-string *string*
Tree	domain-string
String length	1 to 127
String format	'domain-string' must be a DNS-style label sequence (RFC 1035)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time

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Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-address *ipv6-address*

Synopsis	DHCP option specified as a list of IPv6 addresses

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Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* ipv6-address *ipv6-address*
Tree	ipv6-address
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

preferred-lifetime *number*

Synopsis	Time this lease remains preferred
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults preferred-lifetime *number*
Tree	preferred-lifetime
Description	This command configures the preferred lifetime of the IPv6 lease address or prefix. When the preferred lifetime expires, any derived addresses are deprecated. The preferred lifetime must be less than or equal to the valid lifetime. Each address or prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address/prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).
Range	300 to 315446399
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

rebind-time *number*

Synopsis	Rebind time for the lease
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults rebind-time *number*

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Tree	rebind-time
Description	This command configures the rebind time, known as T2, at which the client contacts the addressing authority to extend the lifetimes of its leases. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew or reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses or prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured rebind timer value should always be less than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 1209600
Units	seconds
Default	2880
Introduced	25.3.R2
Platforms	SAR Gen 2

renew-time *number*

Synopsis	Renew time for the lease
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults renew-time *number*
Tree	renew-time
Description	This command configures the renew time, known as T1, at which the client makes a transition to the lease-renewal state. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew/reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses/prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured renew timer value should always be shorter than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 604800
Units	seconds

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Default	1800
Introduced	25.3.R2
Platforms	SAR Gen 2

valid-lifetime *number*

Synopsis	Time for the lease to remain valid
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* defaults valid-lifetime *number*
Tree	valid-lifetime
Description	This command configures a valid lifetime for a DHCPv6 lease address or prefix. The valid lifetime is the length of time an address and prefix remains in the valid state. The valid lifetime must be greater than or equal to the preferred lifetime. When the valid lifetime expires, the address and prefix becomes invalid and must not be used in communications. RFC 2461 recommends a default value of 30 days. Each address and prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address and prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).
Range	300 to 315446399
Units	seconds
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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failover

Synopsis	Enter the **failover** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover
Tree	failover
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds

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Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover peer *reference*
Tree	peer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* failover startup-wait-time *number*
Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-rapid-commit *boolean*

Synopsis	Ignore Rapid Commit option
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* ignore-rapid-commit *boolean*
Tree	ignore-rapid-commit
Description	When configured to **true**, the server ignores the Rapid Commit option sent by the client and uses the regular message exchange.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-id-mapping *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Map hosts within interface-to-prefix combinations
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* interface-id-mapping *boolean*
Tree	interface-id-mapping
Description	When configured to **true**, this command specifies an interface-mapping method that uses a combination of unique /64 prefixes and interface IDs. A /64 prefix is allocated to each interface ID, and all clients with the same interface ID are assigned an address from the prefix. This method is used for bridging clients in the same local loop and SAP, so that sharing the prefix allows communication to stay local. For SLAAC-based assignment, downstream neighbor discovery is automatically enabled to resolve the assigned address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-hold

Synopsis	Enter the **lease-hold** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-hold
Tree	lease-hold
Introduced	25.3.R2
Platforms	SAR Gen 2

additional-scenarios

Synopsis	Enter the **additional-scenarios** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios
Tree	additional-scenarios
Description	Commands in this context configure additional types of leases or triggers that cause the system to hold up leases.
Introduced	25.3.R2

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Platforms	SAR Gen 2

fwa-address-assignment *boolean*

Synopsis	Apply lease hold timer to FWA session
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios fwa-address-assignment *boolean*
Tree	fwa-address-assignment
Description	When configured to **true**, the router applies the lease hold timer to non-deferred IP addresses or SLAAC prefixes assigned to FWA sessions.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

internal-lease-ipsec *boolean*

Synopsis	Apply the lease hold timer to local IPsec clients
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios internal-lease-ipsec *boolean*
Tree	internal-lease-ipsec
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

solicited-release *boolean*

Synopsis	Apply lease hold timer for solicited releases
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios solicited-release *boolean*
Tree	solicited-release
Description	This command enables the server to hold up a lease even for a solicited release, for example, when the server receives a normal DHCP release message.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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time *number*

Synopsis	Lease hold time
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-hold time *number*
Tree	time
Range	1 to 631152000
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-query *boolean*

Synopsis	Handle and reply to lease query messages
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* lease-query *boolean*
Tree	lease-query
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [pool-name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item*
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool-name**] *named-item*

Synopsis	DHCP server pool name
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

delegated-prefix

Synopsis	Enter the **delegated-prefix** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix
Tree	delegated-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

length *number*

Synopsis	Prefix length for pool if unspecified by client
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix length *number*
Tree	length
Range	48 to 127
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum *number*

Synopsis	Maximum delegated prefix length for this pool
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix maximum *number*
Tree	maximum
Range	48 to 127
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

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minimum *number*

Synopsis	Minimum delegated prefix length for this pool
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix minimum *number*
Tree	minimum
Range	48 to 127
Default	48
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Add a list entry for **exclude-prefix**
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* exclude-prefix *ipv6-prefix*
Tree	exclude-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix to be excluded from available pool prefixes
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* exclude-prefix *ipv6-prefix*

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Tree	exclude-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

failover

Synopsis	Enter the **failover** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover
Tree	failover
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough

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time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.

Range	0 to 86399
Units	seconds
Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone* | *ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* failover startup-wait-time *number*
Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

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option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send as identification string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Range	1 to 65535
Options	dns-server, domain-name
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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domain-string *string*

Synopsis	DHCP option specified as a domain name
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* domain-string *string*
Tree	domain-string
String length	1 to 127
String format	'domain-string' must be a DNS-style label sequence (RFC 1035)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-address *ipv6-address*

Synopsis	DHCP option specified as a list of IPv6 addresses
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* ipv6-address *ipv6-address*
Tree	ipv6-address
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Enter the **prefix** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix to be excluded from available pool prefixes
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drain *boolean*

Synopsis	No new leases can be assigned
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* drain *boolean*
Tree	drain
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

failover-control-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Failover control type for this range
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* failover-control-type *keyword*
Tree	failover-control-type
Options	local, remote, access-driven
Default	local
Introduced	25.3.R2
Platforms	SAR Gen 2

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options

Synopsis	Enter the **options** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send as identification string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)*
Tree	option
Range	1 to 65535
Options	dns-server, domain-name
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string

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String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-string *string*

Synopsis	DHCP option specified as a domain name
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* domain-string *string*
Tree	domain-string
String length	1 to 127
String format	'domain-string' must be a DNS-style label sequence (RFC 1035)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option

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Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-address *ipv6-address*

Synopsis	DHCP option specified as a list of IPv6 addresses
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* ipv6-address *ipv6-address*
Tree	ipv6-address
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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preferred-lifetime *number*

Synopsis	Time this lease remains preferred
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* preferred-lifetime *number*
Tree	preferred-lifetime
Description	This command configures the preferred lifetime of the IPv6 lease address or prefix. When the preferred lifetime expires, any derived addresses are deprecated. The preferred lifetime must be less than or equal to the valid lifetime. Each address or prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address/prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).
Range	300 to 315446399
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length-threshold [prefix-length] *number*

Synopsis	Enter the **prefix-length-threshold** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number*
Tree	prefix-length-threshold
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-length**] *number*

Synopsis	Delegated prefix length for pool thresholds
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number*

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Tree	prefix-length-threshold
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

absolute *number*

Synopsis	Minimum number of free prefixes for this prefix length
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number* absolute *number*
Tree	absolute
Range	1 to 4294967295
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate a notification when this pool is depleted
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number* event-when-depleted *boolean*
Tree	event-when-depleted
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

percent *number*

Synopsis	Minimum percentage of free prefixes for prefix length
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number* percent *number*
Tree	percent
Range	1 to 100
Notes	The following elements are part of a choice: **absolute** or **percent**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-type

Synopsis	Enter the **prefix-type** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-type
Tree	prefix-type
Introduced	25.3.R2
Platforms	SAR Gen 2

pd *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Allocate IA-PD prefixes from this prefix pool
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-type pd *boolean*
Tree	pd
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

wan-host *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Allocate IA-NA or SLAAC prefixes from this prefix pool
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-type wan-host *boolean*
Tree	wan-host
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

rebind-time *number*

Synopsis	Rebind time for the lease
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* rebind-time *number*
Tree	rebind-time
Description	This command configures the rebind time, known as T2, at which the client contacts the addressing authority to extend the lifetimes of its leases. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew or reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses or prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured rebind timer value should always be less than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 1209600
Units	seconds
Default	2880
Introduced	25.3.R2
Platforms	SAR Gen 2

renew-time *number*

Synopsis	Renew time for the lease
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* renew-time *number*
Tree	renew-time
Description	This command configures the renew time, known as T1, at which the client makes a transition to the lease-renewal state. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew/reply message exchange to extend the lifetimes of any addresses in the IA. The

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client includes an IA option with all addresses/prefixes currently assigned to the IA in its renew message.

Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured renew timer value should always be shorter than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.

Range	0 to 604800
Units	seconds
Default	1800
Introduced	25.3.R2
Platforms	SAR Gen 2

valid-lifetime *number*

Synopsis	Time for the lease to remain valid
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* valid-lifetime *number*
Tree	valid-lifetime
Description	This command configures a valid lifetime for a DHCPv6 lease address or prefix. The valid lifetime is the length of time an address and prefix remains in the valid state. The valid lifetime must be greater than or equal to the preferred lifetime. When the valid lifetime expires, the address and prefix becomes invalid and must not be used in communications. RFC 2461 recommends a default value of 30 days. Each address and prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address and prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).
Range	300 to 315446399
Units	seconds
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-length-threshold [prefix-length] *number*

Synopsis	Enter the **prefix-length-threshold** list instance
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number*
Tree	prefix-length-threshold
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-length**] *number*

Synopsis	Delegated prefix length for pool thresholds
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number*
Tree	prefix-length-threshold
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate a notification when this pool is depleted
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number* event-when-depleted *boolean*
Tree	event-when-depleted
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-free-percent *number*

Synopsis	Percentage of free prefixes for this prefix length

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Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number* minimum-free-percent *number*
Tree	minimum-free-percent
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-selection

Synopsis	Enter the **pool-selection** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool-selection
Tree	pool-selection
Introduced	25.3.R2
Platforms	SAR Gen 2

use-link-address

Synopsis	Enable the **use-link-address** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool-selection use-link-address
Tree	use-link-address
Description	This command configures the local pool selection for DHCPv6 address or prefix assignment to use the link address. When configured, the selected pool contains a prefix covering the link address.
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	Scope of the IP address selection
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool-selection use-link-address scope *keyword*
Tree	scope
Options	subnet, pool
Default	subnet

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Introduced	25.3.R2
Platforms	SAR Gen 2

use-pool-from-client

Synopsis	Enable the **use-pool-from-client** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool-selection use-pool-from-client
Tree	use-pool-from-client
Introduced	25.3.R2
Platforms	SAR Gen 2

delimiter *string-not-all-spaces*

Synopsis	Delimiter to combine primary and secondary pool names
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* pool-selection use-pool-from-client delimiter *string-not-all-spaces*
Tree	delimiter
Description	This command configures a single ASCII character that separates the pool names in DHCP vendor-specific option 82, which identifies the address pool to be used for this client.
String length	1
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

server-id

Synopsis	Enter the **server-id** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* server-id
Tree	server-id
Introduced	25.3.R2
Platforms	SAR Gen 2

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duid-enterprise

Synopsis	Enter the **duid-enterprise** context
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* server-id duid-enterprise
Tree	duid-enterprise
Notes	The following elements are part of a choice: **duid-enterprise** or **duid-link-local**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DUID enterprise server ID specified as an ASCII string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* server-id duid-enterprise ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 58
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DUID enterprise server ID specified as a hex string
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* server-id duid-enterprise hex-string *hex-string*
Tree	hex-string
String length	1 to 118
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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duid-link-local

Synopsis	Derive DUID server ID from a system link-layer address
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* server-id duid-link-local
Tree	duid-link-local
Notes	The following elements are part of a choice: **duid-enterprise** or **duid-link-local**.
Introduced	25.3.R2
Platforms	SAR Gen 2

user-db *reference*

Synopsis	Assign local user database to lookup DHCP lease data
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* user-db *reference*
Tree	user-db
Reference	**configure** subscriber-mgmt local-user-db *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

user-identification *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	User identification method for the DHCP server
Context	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item* user-identification *keyword*
Tree	user-identification
Options	duid, interface-id, interface-id-link-local
Introduced	25.3.R2
Platforms	SAR Gen 2

dns

Synopsis	Enter the **dns** context

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Context	**configure** router *named-item-64* dns
Tree	dns
Introduced	25.3.R2
Platforms	SAR Gen 2

redirect-vprn

Synopsis	Enter the **redirect-vprn** context
Context	**configure** router *named-item-64* dns redirect-vprn
Tree	redirect-vprn
Description	Commands in this context configure DNS resolution of all packets through the VPRN DNS server. The VPRN DNS server must be configured before using the commands in this context. If the VPRN DNS server is not configured, all packet resolution fails.
Introduced	25.3.R2
Platforms	SAR Gen 2

service [service-name] *reference*

Synopsis	Enter the **service** list instance
Context	**configure** router *named-item-64* dns redirect-vprn service *reference*
Tree	service
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *reference*

Synopsis	Administrative service name
Context	**configure** router *named-item-64* dns redirect-vprn service *reference*
Tree	service
Reference	**configure** service vprn *service-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Service preference
Context	**configure** router *named-item-64* dns redirect-vprn service *reference* preference *number*
Tree	preference
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ecmp *number*

Synopsis	Maximum equal-cost routes for routing table instance
Context	**configure** router *named-item-64* ecmp *number*
Tree	ecmp
Description	This command configures ECMP and defines the number of routes for path sharing. ECMP can be used only for routes learned with the same preference and the same protocol. If available ECMP routes at the best preference exceed the maximum ECMP routes allowed, the system selects the route using the following criteria: **1.** The system selects the lowest next hop router ID. **2.** If the next hop goes to the same neighbor, the system selects the next hop with the lowest interface index.
Range	1 to 128
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label *boolean*

Synopsis	Use entropy label
Context	**configure** router *named-item-64* entropy-label *boolean*
Tree	entropy-label
Description	When configured to **true**, this command enables the use of entropy labels. The entropy label and indicator (EL/ELI) are inserted on relevant packets. Applicable packets are those for which at least one LSP in the stack at the far end has advertised the entropy-label capability. These LSPs are in LDP or RSVP tunnels used by an IGP

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or BGP shortcut. If the tunnel is of type RSVP, the entropy-label capability must also be enabled under the **configure router mpls** or **configure router mpls lsp** context.

This command also results in other traffic that is forwarded over an LDP or RSVP LSP for which this router is the LER, and for which there is no explicit service endpoint on this router, to have the EL/ELI enabled, subject to the LSP far-end advertising entropy-label-capability. An example of such traffic includes packets arriving on a stitched LDP LSP forwarded over an RSVP LSP.

The entropy label and the hash label features are mutually exclusive. The entropy label cannot be configured on a spoke SDP or service where the hash label feature has already been configured.

When configured to **false**, the use of entropy labels is disabled.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

evpn-neighbor-synchronization

Synopsis Enable the **evpn-neighbor-synchronization** context

Context **configure** router *named-item-64* evpn-neighbor-synchronization

Tree evpn-neighbor-synchronization

Introduced 26.3.R1

Platforms SAR Gen 2

admin-state *keyword*

Synopsis Administrative state of EVPN synchronization

Context **configure** router *named-item-64* evpn-neighbor-synchronization admin-state *keyword*

Tree admin-state

Description This command configures local **static** and **dynamic** ARP and ND entries to be advertised using an EVPN MAC/IP advertisement route. On reception of those routes, ARP and ND entries are created on the routing context and interface identified by the EVI route target and the ESI.

When unconfigured, local **static** and **dynamic** ARP and ND entries are not advertised.

Options enable, disable

Default disable

Introduced 26.3.R1

Platforms SAR Gen 2

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evi-route-target *evi-route-target*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	EVI route target to use for EVPN neighbor synchronization
Context	**configure** router *named-item-64* evpn-neighbor-synchronization evi-route-target *evi-route-target*
Tree	evi-route-target
Description	This command configures the EVI route target used on the MAC/IP routes advertised for the routing context. On reception, the EVI route target is used to identify the routing context in which the ARP and ND entries are installed.
String length	10 to 28
String format	'evi-route-target-32' must be evi-target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Introduced	26.3.R1
Platforms	SAR Gen 2

retention-timer *number*

Synopsis	Time that an EVPN ARP or ND entry is retained
Context	**configure** router *named-item-64* evpn-neighbor-synchronization retention-timer *number*
Tree	retention-timer
Description	This command sets the timer that determines how long an EVPN ARP or ND entry is retained after the remote PE withdraws the MAC/IP route that originated it. The behavior for a synchronized ARP and ND entry is as follows: **1.** When the originating EVPN MAC/IP route is withdrawn, the retention timer starts, and the entry remains present until the timer expires. **2.** While the retention timer is active, the system attempts to refresh the entry by sending an ARP Request or Neighbor Solicitation to the IP owner. This refresh may occur at any point from the start of the timer until 30 seconds before it expires. **3.** ARP Requests and Neighbor Solicitations are staggered within the timeout period to prevent overloading the CPM transmitter when many entries require refreshing.
Range	1 to 65535
Units	seconds
Introduced	26.3.R1
Platforms	SAR Gen 2

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route-distinguisher *vpn-route-distinguisher*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Route distinguisher used for synchronization
Context	**configure** router *named-item-64* evpn-neighbor-synchronization route-distinguisher *vpn-route-distinguisher*
Tree	route-distinguisher
Description	This command configures the route distinguisher of the MAC/IP routes used for synchronization.
String format	'vpn-route-distinguisher' must be IP:comm or AS-number pair per RD rules
Introduced	26.3.R1
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	BGP route tag for MAC/IP routes synchronization
Context	**configure** router *named-item-64* evpn-neighbor-synchronization route-tag *number*
Tree	route-tag
Description	This command applies the BGP route tag to MAC/IP routes generated from local ARP and ND entries. This tag can be matched by any export policy.
Range	1 to 255
Introduced	26.3.R1
Platforms	SAR Gen 2

fib-priority *keyword*

Synopsis	FIB priority for VPRN BGP routes
Context	**configure** router *named-item-64* fib-priority *keyword*
Tree	fib-priority
Description	This command prioritizes the order in which BGP FIB entries across different routing instances are pushed to the IOM for updating. This allows BGP route updates for higher

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priority router instances to occur as quickly as possible by assigning a FIB priority to the associated router instances (base and VPRN instances).

If routing updates are available for multiple router instances, the IOMs or IMMs update the FIB with entries with **high** priority router instances before entries with **standard** priority router instances.

Options	standard – Standard FIB priority for routing instances high – High FIB priority for routing instances
Default	standard
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-tunneling *boolean*

Synopsis	Allow tunneling of ICMP reply packets over MPLS LSPs
Context	**configure** router *named-item-64* icmp-tunneling *boolean*
Tree	icmp-tunneling
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp

Synopsis	Enable the **igmp** context
Context	**configure** router *named-item-64* igmp
Tree	igmp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IGMP
Context	**configure** router *named-item-64* igmp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2

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Platforms	SAR Gen 2

group-if-query-source-address *ipv4-unicast-address*

Synopsis	Default query-source address for all group interfaces
Context	**configure** router *named-item-64* igmp group-if-query-source-address *ipv4-unicast-address*
Tree	group-if-query-source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* igmp interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** router *named-item-64* igmp interface *interface-name*
Tree	interface
Description	This command configures the interface name, which must be unique within the group of defined IP interfaces for the context. If the IP interface name does not exist or does not have an IP address configured, an error message is returned. If the IP interface exists in a different area, it is moved to this area. An interface name cannot be in the form of an IP address.
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of IGMP
Context	**configure** router *named-item-64* igmp interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** router *named-item-64* igmp interface *interface-name* import-policy *reference*
Tree	import-policy
Description	This command configures the IGMP import policy, or filter, for an interface subscriber or a group interface. An IGMP filter is also known as a black or white list, and it is defined as a router policy option. When redirection is applied, only the import policy from the subscriber is in effect. The import policy under the group interface is applicable only for IGMP states received directly on the SAP (AN in IGMP proxy mode).
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-group-sources *number*

Synopsis	Maximum number of group sources for this interface
Context	**configure** router *named-item-64* igmp interface *interface-name* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Description	This command configures the maximum number of group sources for which IGMP or MLD can have local receiver information based on received IGMP or MLD reports on this interface. When this configuration is changed dynamically to a lower value than the currently accepted number of group sources, the group sources that are already accepted are not deleted. Only new group sources are not allowed.
Range	1 to 32000

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Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum number of groups for this interface
Context	**configure** router *named-item-64* igmp interface *interface-name* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum number of sources that are allowed per group
Context	**configure** router *named-item-64* igmp interface *interface-name* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** router *named-item-64* igmp interface *interface-name* query-interval *number*
Tree	query-interval
Range	2 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages

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Context	**configure** router *named-item-64* igmp interface *interface-name* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** router *named-item-64* igmp interface *interface-name* query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

redundant-mcast *boolean*

Synopsis	Use interface as a redundant-pair member for multicast
Context	**configure** router *named-item-64* igmp interface *interface-name* redundant-mcast *boolean*
Tree	redundant-mcast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable router alert checking for IGMP or MLD messages
Context	**configure** router *named-item-64* igmp interface *interface-name* router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** router *named-item-64* igmp interface *interface-name* ssm-translate
Tree	ssm-translate
Description	Commands in this context configure a group range that is translated to SSM (S,G) entries. If a static entry needs to be created, it is translated from an IGMPv1 or v2 request to an SSM join message.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv4-multicast-address* end *ipv4-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** router *named-item-64* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
Description	Commands in this context configure the range of IP addresses that is translated to SSM (S,G) entries.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv4-multicast-address*

Synopsis	Lower bound of the IP address group range
Context	**configure** router *named-item-64* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *ipv4-multicast-address*

Synopsis	Upper bound of the IP address group range
Context	**configure** router *named-item-64* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** router *named-item-64* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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static

Synopsis	Enter the **static** context
Context	**configure** router *named-item-64* igmp interface *interface-name* static
Tree	static
Description	Commands in this context configure the testing of multicast forwarding on an interface without a receiver host.
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv4-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** router *named-item-64* igmp interface *interface-name* static group *ipv4-multicast-address*
Tree	group
Description	Commands in this context configure a static multicast group as either a starg (*,G), or one or more SSM (S,G) records. IGMP static group memberships are used to test multicast forwarding without a receiver host. When a static IGMP group is configured, data is forwarded to an interface without receiving membership reports from host members. When the group entries are configured on point-to-point links that connect routers to a rendezvous point (RP), the static IGMP group entries do not generate join messages toward the RP.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-address**] *ipv4-multicast-address*

Synopsis	Group address of static IGMP multicast channel
Context	**configure** router *named-item-64* igmp interface *interface-name* static group *ipv4-multicast-address*
Tree	group
Description	This command configures an address that receives data on an interface. The IP address must be unique for each static group.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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	'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* igmp interface *interface-name* static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** router *named-item-64* igmp interface *interface-name* static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	Add a starg (*,G) address entry for the group range
Context	**configure** router *named-item-64* igmp interface *interface-name* static group *ipv4-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
Description	Commands in this context configure the ranges of IP addresses for the static groups.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv4-multicast-address*

Synopsis	IP address for the start of the static group range
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-multicast-address*

Synopsis	IP address for the end of the static group range
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

step *ipv4-address*

Synopsis	Step interval in the group-range address
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
MD-CLI default	0.0.0.1
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address* source *ipv4-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	Add a starg (*,G) address entry for the group range
Context	**configure** router *named-item-64* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subnet-check *boolean*

Synopsis	Allow subnet checking
Context	**configure** router *named-item-64* igmp interface *interface-name* subnet-check *boolean*
Tree	subnet-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	IGMP protocol version
Context	**configure** router *named-item-64* igmp interface *interface-name* version *keyword*
Tree	version
Options	1, 2, 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages

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Context	**configure** router *named-item-64* igmp query-interval *number*
Tree	query-interval
Description	This command configures the timing of the host-query messages that solicit group membership information. The messages are sent to the all-systems multicast group address, 224.0.0.1.
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** router *named-item-64* igmp query-last-member-interval *number*
Tree	query-last-member-interval
Description	This command configures the timing of the query-message interval, defining the interval for leave-group messages among others. The lower the interval that is configured, the faster the detection of the loss of the last member of a group.
Range	1 to 1023
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** router *named-item-64* igmp query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** router *named-item-64* igmp robust-count *number*
Tree	robust-count
Description	This command configures the level of expected packet loss on a subnet. If a subnet anticipates losses, this value can be increased.
Range	2 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** router *named-item-64* igmp ssm-translate
Tree	ssm-translate
Description	Commands in this context configure a group range that is translated to SSM (S,G) entries. If a static entry needs to be created, it is translated from an IGMPv1 or v2 request to an SSM join message.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv4-multicast-address* end *ipv4-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** router *named-item-64* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
Description	Commands in this context configure the range of IP addresses that is translated to SSM (S,G) entries.
Introduced	25.3.R2
Platforms	SAR Gen 2

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start *ipv4-multicast-address*

Synopsis	Lower bound of the IP address group range
Context	**configure** router *named-item-64* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-multicast-address*

Synopsis	Upper bound of the IP address group range
Context	**configure** router *named-item-64* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** router *named-item-64* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* interface *interface-name*
Tree	interface
Description	Commands in this context create a logical IP routing or unnumbered MPLS-TP interface. An IP address, port, or system can then be associated with the IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* interface *interface-name*
Tree	interface
Description	This command specifies the name of the router interface. When a user enters a new name, the system creates a new logical interface and the context changes to that interface for more command processing. When an existing interface name is entered, the user enters the router interface context for editing and configuration. Nokia recommends using names that are meaningful and unique to remove ambiguity when displaying the state associated with IP interfaces either via show commands or model-driven interfaces. See "Router configuration overview" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about the interface name.
String length	1 to 32

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the interface
Context	**configure** router *named-item-64* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

autoconfigure

Synopsis	Enter the **autoconfigure** context
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure
Tree	autoconfigure
Description	Commands in this context configure the autoconfigure functionality for the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4
Tree	ipv4
Description	Commands in this context configure IPv4 autoconfigure settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-client

Synopsis	Enable the **dhcp-client** context
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client

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Tree	dhcp-client
Description	Commands in this context configure the node as an IPv4 DHCP client. When the node operates as a DHCP client, it learns the IP address of the interface via dynamic IP address assignment.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP client
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

class-id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **class-id** context
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client class-id
Tree	class-id
Description	Commands in this context configure the vendor class ID for the DHCP client.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Vendor class ID as an ASCII string
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client class-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Vendor class ID as a hexadecimal string
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client class-id hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **client-id** context
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client client-id
Tree	client-id
Description	Commands in this context configure the client ID for the DHCP client.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client ID as an ASCII string
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client client-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client ID as a hexadecimal string
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client client-id hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interface name as the client ID
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client client-id interface
Tree	interface
Description	This command configures the node to use the interface name as the client ID.
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MAC address as the client ID
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client client-id mac
Tree	mac
Description	This command configures the node to use the MAC address as the client ID.
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-time *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Lease time the DHCP client requests

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Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client lease-time *(number | keyword)*
Tree	lease-time
Description	This command configures the lease time that the DHCP client requests to the DHCP server. The DHCP server can override the configured value.
Range	10 to 315446399
Units	seconds
Options	infinite – Request an infinite lease with no expiry
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

request-options

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **request-options** context
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client request-options
Tree	request-options
Description	Commands in this context configure the DHCP options to include in the parameter request list as part of the DHCPREQUEST message to the server.
Introduced	25.3.R2
Platforms	SAR Gen 2

dns-server *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the DNS server option
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client request-options dns-server *boolean*
Tree	dns-server

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Description	When configured to **true**, the node includes the DNS server option (Option 54) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the router option
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client request-options router *boolean*
Tree	router
Description	When configured to **true**, the node includes the router option (Option 3) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static-route *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the static route option
Context	**configure** router *named-item-64* interface *interface-name* autoconfigure ipv4 dhcp-client request-options static-route *boolean*
Tree	static-route
Description	When configured to **true**, the node includes the static route option (Option 121) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *very-long-description*

Synopsis	Text description
Context	**configure** router *named-item-64* interface *interface-name* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection *reference*

Synopsis	DCP policy name for interface
Context	**configure** router *named-item-64* interface *interface-name* dist-cpu-protection *reference*
Tree	dist-cpu-protection
Description	This command configures a Distributed CPU Protection (DCP) policy for the associated IP interface or SAP. The user can only assign a valid created DCP policy to a SAP or network interface (this rule does not apply to templates such as an MSAP policy). If the operator does not assign a DCP policy to a router interface, the system uses the default network DCP policy.
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** router *named-item-64* interface *interface-name* egress
Tree	egress
Description	Commands in this context configure egress network filter policies for the IP interface. The system does not filter unless an operator defines a filter.
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter

Synopsis	Enter the **filter** context
Context	**configure** router *named-item-64* interface *interface-name* egress filter
Tree	filter
Description	Commands in this context configure the names of the egress IPv4 and IPv6 network filter policies for the interface. Filter policies control packet forwarding and dropping based on IP match criteria.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** router *named-item-64* interface *interface-name* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** router *named-item-64* interface *interface-name* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm
Tree	eth-cfm
Description	Commands in this context configure the Ethernet CFM command options for the associated IP interface.

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Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Description	Commands in this context configure an 802.1ag Maintenance Endpoint (MEP) instance.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

alarm-notification

Synopsis	Enter the **alarm-notification** context
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm *boolean*

Synopsis	Generate CCM messages
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP

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Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-tlv-ignore *keyword*

Synopsis	TLV to ignore on reception
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-tlv-ignore *keyword*
Tree	ccm-tlv-ignore
Description	This command configures the receiving MEP to ignore the specified TLVs in the CCM PDU. The ignored TLVs are reported as absent and have no impact on the MEP state machine. When unconfigured, the MEP processes all the recognized TLVs.
Options	interface-status, port-status
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

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crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros
Introduced	25.3.R2
Platforms	SAR Gen 2

facility-fault *boolean*

Synopsis	Allow the facility MEP to generate a network action
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* facility-fault *boolean*
Tree	facility-fault
Description	When configured to **true**, the system facility MEP responds to a fault with a network-actionable function instead of just reporting the defect condition. When configured to **false**, the system monitors transmissions and reports fault conditions.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect for fault alarm generation
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Description	This command specifies the lowest priority defect that generates a fault alarm and also configures the fault state of the MEP that causes a network reaction.
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** router *named-item-64* interface *interface-name* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds

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Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

flavor *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Network interface flavor
Context	**configure** router *named-item-64* interface *interface-name* flavor *keyword*
Tree	flavor
Options	regular – Regular network interface pdn – PDN interface unnumbered-mpls-tp – Unnumbered MPLS-TP interface
Default	regular
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time
Tree	hold-time
Description	Commands in this context configure the interface-level up and down hold timers for the associated IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv4
Tree	ipv4
Description	Commands in this context configure the interface-level IPv4 hold timers for the associated IP interface.

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Introduced	25.3.R2
Platforms	SAR Gen 2

down

Synopsis	Enter the **down** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv4 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activating the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv4 down init-only *boolean*
Tree	init-only
Description	This command applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv4 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2

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Platforms	SAR Gen 2

up

Synopsis	Enter the **up** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv4 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv4 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv6
Tree	ipv6
Description	Commands in this context configure the interface-level IPv6 hold timers for the associated IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

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down

Synopsis	Enter the **down** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv6 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv6 down init-only *boolean*
Tree	init-only
Description	When configured to **true**, the system applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv6 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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up

Synopsis	Enter the **up** context
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv6 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** router *named-item-64* interface *interface-name* hold-time ipv6 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

if-attribute

Synopsis	Enter the **if-attribute** context
Context	**configure** router *named-item-64* interface *interface-name* if-attribute
Tree	if-attribute
Description	Commands in this context configure attributes of the IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group *reference*

Synopsis	Administrative group name for the interface
Context	**configure** router *named-item-64* interface *interface-name* if-attribute admin-group *reference*

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Tree	admin-group
Description	This command specifies the administrative group membership to an interface. The configured administrative group membership is applied in all levels or areas the interface is participating in. The same interface cannot have different memberships in different levels or areas.
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

delay

Synopsis	Enter the **delay** context
Context	**configure** router *named-item-64* interface *interface-name* if-attribute delay
Tree	delay
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

Synopsis	Enter the **dynamic** context
Context	**configure** router *named-item-64* interface *interface-name* if-attribute delay dynamic
Tree	dynamic
Description	Commands in this context configure dynamic link delay measurement options for the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

static *number*

Synopsis	Unidirectional link delay static information
Context	**configure** router *named-item-64* interface *interface-name* if-attribute delay static *number*
Tree	static
Description	This command configures the unidirectional link delay. By default there is no configured delay, and the link delay metric TLV is pruned in the IGP.

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Range	1 to 16777214
Units	microseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg-group [name] *reference*

Synopsis	Add a list entry for **srlg-group**
Context	**configure** router *named-item-64* interface *interface-name* if-attribute srlg-group *reference*
Tree	srlg-group
Description	Commands in this context add a list entry for a Shared Risk Link Group (SRLG) that can be associated with an IP or MPLS interface to tag IP or MPLS interfaces that share a specific outcome with the same identifier. For example, an SRLG group identifier could represent all links that use separate fibers but are carried in the same fiber conduit. The name and identifier of each SRLG group must be configured locally on each router before the user configures the SRLG membership of an interface. A maximum of 1024 SRLGs can be configured per system. The user can apply SRLGs to an IES, VPRN, network IP, or MPLS interface. A maximum of 64 SRLGs can be applied to an interface. See "Shared Risk Link Groups" in the *7705 SAR Gen 2 MPLS Guide* for more information about SRLGs.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	SRLG name
Context	**configure** router *named-item-64* interface *interface-name* if-attribute srlg-group *reference*
Tree	srlg-group
Reference	**configure** routing-options if-attribute srlg-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context

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Context	**configure** router *named-item-64* interface *interface-name* ingress
Tree	ingress
Description	Commands in this context configure ingress network filter policies for the IP interface. If an ingress filter is not defined, the system performs no filtering.
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** router *named-item-64* interface *interface-name* ingress filter
Tree	filter
Description	Commands in this context associate an IP filter policy with an IP interface. Filter policies control packet forwarding and dropping based on IP match criteria.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** router *named-item-64* interface *interface-name* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** router *named-item-64* interface *interface-name* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-mtu *number*

Synopsis	Interface IP MTU
Context	**configure** router *named-item-64* interface *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command configures the IP maximum transmission unit (MTU) for the associated router IP interface. The operational IP MTU used for the interface is based on the configured IP MTU and the port MTU of the port bound to this interface; that is, the operational MTU is set to the lesser of the values configured by this command and the port MTU value less the Ethernet header size. If the interface supports IPv6 packets, this command must be set to at least 1280, in accordance with RFC 2460 *Internet Protocol, Version 6 (IPv6) Specification*.
Range	512 to 9786
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec

Synopsis	Enable the **ipsec** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec
Tree	ipsec
Description	Commands in this context configure an IPsec secured interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IPsec secured interface
Context	**configure** router *named-item-64* interface *interface-name* ipsec admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-exception *reference*

Synopsis	IP exception filter
Context	**configure** router *named-item-64* interface *interface-name* ipsec ip-exception *reference*
Tree	ip-exception
Description	This command configures the IP exception filter for the secured interface. All ingress traffic matching the specified filter bypasses IPsec processing.
Reference	**configure** filter ip-exception *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-tunnel [name] *named-item*

Synopsis	Enter the **ipsec-tunnel** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item*
Tree	ipsec-tunnel
Description	Commands in this context configure IPsec tunnels used to secure traffic forwarded over the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec tunnel name
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'name' must not start with a number (e.g. tunnel-1)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the IPsec tunnel
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-designate *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Designate IPsec tunnel to carry BFD traffic
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-designate *boolean*
Tree	bfd-designate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

WARNING:
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Synopsis	Enable the **bfd-liveness** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness
Tree	bfd-liveness
Description	Commands in this context configure a BFD session to provide a heart-beat mechanism for a specified IPsec tunnel. There can be only one BFD session assigned to any given IPsec tunnel, but there can be multiple IPsec tunnels using the same BFD session. BFD controls the state of the association tunnel. If the BFD session goes down, the system brings down the associated non-designated IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination address used for the BFD session
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness dest-ip *ipv4-unicast-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface *interface-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the interface used by the BFD session
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness service-name *service-name*
Tree	service-name
Description	This command configures the name of the service where BFD traffic is forwarded to.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Reset the DF bit to 0 in all payload IP packets
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* clear-df-bit *boolean*
Tree	clear-df-bit
Description	When configured to **true**, the DF bit is set to 0 in all payload IP packets associated with the IPsec tunnel, before any potential fragmentation occurs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

copy-traffic-class-upon-decapsulation *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable traffic class copy upon decapsulation
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* copy-traffic-class-upon-decapsulation *boolean*
Tree	copy-traffic-class-upon-decapsulation
Description	When configured to **true**, the system copies the traffic class from the outer tunnel IP packet header to the payload IP packet header in the decapsulating direction (public to private).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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encapsulated-ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet to the IPsec tunnel, the IP tunnel, or the dynamic tunnels terminated on the IPsec Gateway. If the encapsulated IPv4 or IPv6 tunnel packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp-generation** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation
Tree	icmp-generation
Description	Commands in this context configure settings for ICMPv4 message generation.
Introduced	25.3.R2
Platforms	SAR Gen 2

frag-required

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Enter the **frag-required** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required
Tree	frag-required
Description	Commands in this context configure the attributes for sending generated ICMP Destination Unreachable "fragmentation needed and DF set" messages (type 3, code 4) back to the source, if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of sending ICMP messages
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending ICMP messages
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required interval *number*

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Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMP messages that can be sent
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp6-generation** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation
Tree	icmp6-generation
Description	Commands in this context configure settings for ICMPv6 message generation.

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Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

WARNING:
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Synopsis	Enter the **packet-too-big** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big
Tree	packet-too-big
Description	Commands in this context configure the parameters to send ICMPv6 PTB (Packet Too Big) messages on the private side. The system sends PTB messages if a received IPv6 packet on the private side is greater than 1280 bytes and it exceeds the private MTU of the tunnel. The private MTU for the tunnel is configured via the **configure router interface ipsec ipsec-tunnel ip-mtu** command for the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending Packet Too Big messages
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big interval *number*
Tree	interval
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMPv6 PTB messages that can be sent
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big message-count *number*
Tree	message-count
Description	This command configures the maximum number of PTB messages that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private MTU of the IPsec tunnel
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* ip-mtu *number*
Tree	ip-mtu
Description	This command specifies the private MTU of the IPsec tunnel. The private MTU is used to determine the need for fragmentation before encapsulation of the payload packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

key-exchange

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **key-exchange** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange
Tree	key-exchange
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **dynamic** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic

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Tree	dynamic
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Attempt to establish a phase 1 exchange automatically
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic auto-establish *boolean*
Tree	auto-establish
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish-sustain *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Sustain the automatic establishment
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic auto-establish-sustain *boolean*
Tree	auto-establish-sustain
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

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cert

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **cert** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert
Tree	cert
Description	Commands in this context configure the attributes of the dynamic keying certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **status-verify** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify
Tree	status-verify
Description	Commands in this context configure attributes of Certificate Status Verification (CSV).
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-result *keyword*

Synopsis	Default result for Certificate Status Verification
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify default-result *keyword*
Tree	default-result
Description	This command specifies the default certificate revocation status result to use when all configured CSV methods fail to return a result.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify primary *keyword*
Tree	primary
Description	This command configures the primary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the certificate of the peer.
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify secondary *keyword*
Tree	secondary
Description	This command specifies the secondary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the peer certificate.
Options	none, crl, ocsp
Default	none

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Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **id** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id
Tree	id
Description	Commands in this context specify the local ID used for IDi or IDr for IKEv2 negotiation. The default behavior depends on the local authentication method as follows: • Psk: local tunnel IP address • Cert-auth: subject of the local certificate
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FQDN used as the local ID IKE type

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Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 as the local ID type
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv6 used as the local IKE ID type
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ike-policy *reference*

WARNING:
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Synopsis	IKE policy ID
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ike-policy *reference*
Tree	ike-policy
Description	This command specifies the ID of the IKE policy used for IKE negotiation. The **ipsec-transport-mode-profile** configuration only supports IKEv2.
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec transform IDs used by the dynamic key
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ipsec-transform *reference*
Tree	ipsec-transform
Description	This command specifies IPsec transform IDs used for CHILD_SA negotiation.
Reference	**configure** ipsec ipsec-transform *number*
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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ppk

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ppk** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk
Tree	ppk
Description	Commands in this context configure the PPKs to use for dynamic keying of the IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK ID
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk id *reference*
Tree	id
Reference	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

list *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK list instance name
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk list *reference*

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Tree	list
Reference	**configure** ipsec ppk-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Pre-shared key for authentication
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for authentication in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

reverse-route-injection

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **reverse-route-injection** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection
Tree	reverse-route-injection
Introduced	26.7.R1
Platforms	SAR Gen 2

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metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The metric to be used for reverse route injection
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection metric *number*
Tree	metric
Range	0 to 65535
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The preference to be used for reverse route injection
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection preference *number*
Tree	preference
Range	0 to 255
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

manual

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **manual** context

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Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual
Tree	manual
Description	Commands in this context configure settings for manually configured security associations for the IPsec tunnel.
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

keys [security-association] *number* direction *keyword*

Synopsis	Enter the **keys** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Description	Commands in this context configure the security association list for the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**security-association**] *number*

Synopsis	SA entry ID
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Direction of the IPsec tunnel
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys

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Options	inbound, outbound
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the authentication algorithm
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* authentication-key *hex-string*
Tree	authentication-key
String length	1 to 130
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the encryption algorithm
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* encryption-key *hex-string*
Tree	encryption-key
String length	1 to 66
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-transform *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Transform entry used by manual SAs
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* ipsec-transform *reference*
Tree	ipsec-transform
Reference	**configure** ipsec ipsec-transform *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spi *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	SPI of inbound and outbound packets
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* spi *number*
Tree	spi
Description	This command specifies the Security Parameter Index (SPI) used to look up the instruction to verify and decrypt the incoming IPsec packets when the direction is inbound. When the direction is outbound, the SPI is used in the encoding of the outgoing packets. The remote node can use the SPI to look up the instruction to verify and decrypt the packet.
Range	256 to 16383
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-gateway-address-override *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPsec tunnel endpoint address
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* local-gateway-address-override *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-gateway-address-override
Description	This command configures the local IPsec tunnel endpoint address. This overrides the default endpoint address, which is the interface address.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **max-history-key-records** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records
Tree	max-history-key-records
Description	Commands in this context configure the settings for recording historical IPsec keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of recent records
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records esp *number*

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Tree	esp
Range	1 to 48
Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of historical IKE key records
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

pmtu-discovery-aging *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Aging out time of the learned path MTU
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public and private MTU expiration time. The temporary MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

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private-sap *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Private SAP ID
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* private-sap *number*
Tree	private-sap
Range	0 to 4094
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

private-service *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Private service name
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* private-service *service-name*
Tree	private-service
Description	This command configures the private service name. If unconfigured, the private service is the service where the secured interface resides.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

private-tcp-mss-adjust *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) adjustment
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the TCP MSS to adjust for the tunnel on the private side. When configured, the system may use the value to update the MSS option in the received TCP SYN packet on the private side.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* propagate-pmtu-v4 *boolean*
Tree	propagate-pmtu-v4
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv4 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-pmtu-v6 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv6 hosts
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* propagate-pmtu-v6 *boolean*
Tree	propagate-pmtu-v6
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv6 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) on the public network
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command configures the MSS for the TCP traffic in an IPsec tunnel that is sent from the public network to the private network. The system may use this value to adjust or insert the MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote IPsec tunnel endpoint address
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* remote-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-gateway-address
Introduced	25.3.R2
Platforms	SAR Gen 2

replay-window *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Anti-replay window size
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* replay-window *number*
Tree	replay-window
Description	This command specifies the size of an IPsec anti-replay window. If unconfigured, IPsec anti-replay is disabled.
Range	32 | 64 | 128 | 256 | 512
Units	packets
Introduced	25.3.R2
Platforms	SAR Gen 2

security-policy

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **security-policy** context
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy

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Tree	security-policy
Description	Commands in this context specify a security policy used by the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Security policy ID for use by the tunnel
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy id *number*
Tree	id
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-match *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable strict match of the security policy entry
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy strict-match *boolean*
Tree	strict-match
Description	When configured to **true**, this command enables strict match of the security policy entry. When a CREATE_CHILD exchange request is received for a static IPsec tunnel, and this request is not a rekey request, ISA matches the received TSi and TSr with the configured security policy. This can be a match only when a received TS (in TSi or TSr) address range matches exactly with the subnet in a security policy entry. If there is no match, the setup fails, and TS_UNACCEPTABLE is sent. If there is a match, but there is an existing CHILD_SA for the matched security policy, the setup fails, and NO_PROPOSAL_CHOSEN is sent. If there is a match, and there is not a CHILD_SA for the matched entry, the subnet is sent in the matched security policy entry as TSi and TSr, and the CHILD_SA is created.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-exception *reference*

Synopsis	IPv6 filter exception used to bypass encryption
Context	**configure** router *named-item-64* interface *interface-name* ipsec ipv6-exception *reference*
Tree	ipv6-exception
Description	This command specifies the IPv6 filter exception for an IPsec-secured IPv6 interface. When an IPv6 filter exception is added, clear text packets that match the exception criteria in the IPv6 filter exception can ingress the interface, even when IPsec is enabled on the interface.
Reference	**configure** filter ipv6-exception *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

public-sap *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Public SAP ID
Context	**configure** router *named-item-64* interface *interface-name* ipsec public-sap *number*
Tree	public-sap
Range	0 to 4094
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Tunnel group ID
Context	**configure** router *named-item-64* interface *interface-name* ipsec tunnel-group *reference*
Tree	tunnel-group
Reference	**configure** isa tunnel-group *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-directed-broadcasts *boolean*

Synopsis	Forward directed broadcasts
Context	**configure** router *named-item-64* interface *interface-name* ipv4 allow-directed-broadcasts *boolean*
Tree	allow-directed-broadcasts
Description	When configured to **true**, the router forwards packets received on a local router interface to the subnet broadcast address of another IP interface. When configured to **false**, this router does not allow directed broadcasts and the packets are discarded. Allowing directed broadcasts is a well-known mechanism used for denial-of-service attacks.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 bfd

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Tree	bfd
Description	Commands in this context configure the Bidirectional Forwarding Detection (BFD) settings for the associated IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** router *named-item-64* interface *interface-name* ipv4 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** router *named-item-64* interface *interface-name* ipv4 bfd multiplier *number*
Tree	multiplier
Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.
Range	1 to 20

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Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp
Tree	dhcp
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DHCP
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

gi-address *ipv4-unicast-address*

Synopsis	GI address for the DHCP relay
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp gi-address *ipv4-unicast-address*
Tree	gi-address
Description	This command configures the GI address to distinguish between the different subscriber interfaces (and potentially group interfaces) defined when the router functions as a DHCP relay. By default, the GI address used in the relayed DHCP packet is the primary IP address of a normal IES interface. Specifying the GI address allows the user to choose a secondary address. For group interfaces, a GI address must be specified under the group interface DHCP context or subscriber interface DHCP context for DHCP to function.
String format	'ipv4-address' must use only digits and dots (no %zone)

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'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Introduced 25.3.R2

Platforms SAR Gen 2

option-82

Synopsis Enter the **option-82** context

Context **configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82

Tree option-82

Description Commands in this context configure the processing required when the router receives a DHCP request that already has an Option 82 field in the packet.

Introduced 25.3.R2

Platforms SAR Gen 2

action *keyword*

Synopsis Action to take with received DHCP Option 82

Context **configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 action *keyword*

Tree action

Options replace, drop, keep

Default keep

Introduced 25.3.R2

Platforms SAR Gen 2

circuit-id

Synopsis Enter the **circuit-id** context

Context **configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id

Tree circuit-id

Introduced 25.3.R2

Platforms SAR Gen 2

ascii-tuple

Synopsis Use the ASCII-encoded tuple for the circuit ID

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Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id ascii-tuple
Tree	ascii-tuple
Notes	The following elements are part of a choice: **ascii-tuple**, **if-name**, **ifindex**, **none**, **port-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

if-name

Synopsis	Use the interface name for the circuit ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id if-name
Tree	if-name
Notes	The following elements are part of a choice: **ascii-tuple**, **if-name**, **ifindex**, **none**, **port-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ifindex

Synopsis	Use the interface index for the circuit ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id ifindex
Tree	ifindex
Notes	The following elements are part of a choice: **ascii-tuple**, **if-name**, **ifindex**, **none**, **port-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

none

Synopsis	Do not include the circuit ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id none
Tree	none

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Notes	The following elements are part of a choice: **ascii-tuple**, **if-name**, **ifindex**, **none**, **port-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id

Synopsis	Use the port ID for the circuit ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id port-id
Tree	port-id
Notes	The following elements are part of a choice: **ascii-tuple**, **if-name**, **ifindex**, **none**, **port-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-ascii-tuple

Synopsis	Include the VLAN ID and dot1p bits in the ASCII tuple
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 circuit-id vlan-ascii-tuple
Tree	vlan-ascii-tuple
Description	When configured, the router includes the VLAN ID and dot1p bits with the ASCII-tuple information. This only occurs on dot1q and QinQ-encapsulated ports. When the Option 82 bits are stripped, dot1p bits are copied to the Ethernet header of the outgoing packet. When unconfigured, the router leaves the circuit ID sub-option of the DHCP packet empty.
Notes	The following elements are part of a choice: **ascii-tuple**, **if-name**, **ifindex**, **none**, **port-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-id

Synopsis	Enter the **remote-id** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 remote-id
Tree	remote-id

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Description	Commands in this context configure the remote IP sub-option of the DHCP packet with the identity of the remote host end (typically the DHCP client).
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the remote ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 remote-id ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Use the MAC address for the remote ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 remote-id mac
Tree	mac
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

none

Synopsis	Do not include the remote ID
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 remote-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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vendor-specific-option

Synopsis	Enter the **vendor-specific-option** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option
Tree	vendor-specific-option
Description	Commands in this context configure the Nokia Vendor-Specific Option (VSO) of the DHCP packet.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-mac-address *boolean*

Synopsis	Send the MAC address in the VSO
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option client-mac-address *boolean*
Tree	client-mac-address
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-name *boolean*

Synopsis	Send the pool name in the VSO
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option pool-name *boolean*
Tree	pool-name
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id *boolean*

Synopsis	Send the port ID in the VSO
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option port-id *boolean*

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Tree	port-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *boolean*

Synopsis	Send the service ID in the Vendor Specific Option
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option service-id *boolean*
Tree	service-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the VSO
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option string *string-not-all-spaces*
Tree	string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id *boolean*

Synopsis	Send the system ID in the VSO
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option system-id *boolean*
Tree	system-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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relay-plain-bootp *boolean*

Synopsis	Relay plain BOOTP messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp relay-plain-bootp *boolean*
Tree	relay-plain-bootp
Description	When configured to **true**, the system relays plain BOOTP messages. When configured to **false**, the system considers the plain BOOTP packets as malformed DHCP packets; therefore, the system does not relay the messages.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv4-unicast-address*

Synopsis	IP addresses for DHCP server requests
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp server *ipv4-unicast-address*
Tree	server
Description	This command configures a list of servers that this interface forwards requests to. The operator can enter the list of servers as either IP addresses or fully qualified domain names. The operator must specify at least one server specified for DHCP relay to work. If there are multiple servers, the system forwards the request to all the servers in the list.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	8
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip-addr *keyword*

Synopsis	Type of source address to use for DHCP relay
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp src-ip-addr *keyword*
Tree	src-ip-addr
Options	auto, gi-address

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Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

trusted *boolean*

Synopsis	Relay untrusted packets
Context	**configure** router *named-item-64* interface *interface-name* ipv4 dhcp trusted *boolean*
Tree	trusted
Description	When configured to **true**, the router enables the trusted mode on the interface. When enabled, the relay agent changes the existing GI address (of the request) to the ingress interface, and forwards the request. A DHCP request that contains a GI address of 0.0.0.0 and an Option 82 field in the packet is discarded unless it arrives on a trusted circuit. This behavior only applies if the Relay Agent Information Option action is to keep the existing information. When the Option 82 field is replaced by the relay agent, the original Option 82 information is lost, and there is no reason to enable the trusted option.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp
Tree	icmp
Description	Commands in this context configure Internet Control Message Protocol (ICMP) parameters on a network IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask-reply *boolean*

Synopsis	Allow responses to ICMP mask requests on the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp mask-reply *boolean*
Tree	mask-reply

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp param-problem
Tree	param-problem
Description	Commands in this context specify the settings for ICMP Parameter Problem messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sent Parameter Problem messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of Parameter Problem messages to send
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Time used to limit number of Parameter Problem messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp param-problem seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

redirects

Synopsis	Enter the **redirects** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp redirects
Tree	redirects
Description	Commands in this context configure the settings for ICMP redirect messages generated by the interface. The system sends ICMP redirect messages to alert the sending node that a more optimal route is available on another router on the same subnetwork.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending ICMP redirect messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp redirects admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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number *number*

Synopsis	Maximum number of ICMP redirect messages to send
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of ICMP redirect messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp redirects seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-expired

Synopsis	Enter the **ttl-expired** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp ttl-expired
Tree	ttl-expired
Description	Commands in this context configure the settings for ICMP TTL expired messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending TTL expired messages

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Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp ttl-expired admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of TTL expired messages to send
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp ttl-expired number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of TTL expired messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp ttl-expired seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp unreachables
Tree	unreachables

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Description	Commands in this context specify the settings for ICMP host and network destination unreachable messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending unreachable messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of unreachable messages to send
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp unreachables number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time to limit the number of ICMP unreachable messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 icmp unreachables seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-helper-address *ipv4-unicast-address*

Synopsis	IP address of the target UDP broadcast gateway
Context	**configure** router *named-item-64* interface *interface-name* ipv4 ip-helper-address *ipv4-unicast-address*
Tree	ip-helper-address
Description	This command configures the redirection of broadcast UDP packets received on the associated interface to the specified helper gateway address, and then to the gateway.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *reference*

Synopsis	DHCP server for the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 local-dhcp-server *reference*
Tree	local-dhcp-server
Reference	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enable the **nat** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 nat
Tree	nat
Description	Commands in this context enable NAT and configure CPM NAT policies for the IPv4 interface. These commands must be used in conjunction with NAT pools where the pool application is configured with the **configure router nat outside pool applications use-interface-ip** command.
Introduced	25.7.R1

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Platforms	SAR Gen 2

cpm-nat-policy *reference*

Synopsis	CPM NAT policy association with public IPv4 interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 nat cpm-nat-policy *reference*
Tree	cpm-nat-policy
Description	This command associates a CPM NAT policy to the interface. The NAT policy applies to traffic that either originates from, or is destined to, the local node itself (CPM traffic). Specifically, it is used when the traffic is routed through a public NAT IPv4 interface in the outside routing context. A CPM NAT policy should be used when the local node communicates with public networks over NAT, and the source or destination is a local interface within the outside routing context. This can include the public IPv4 interface or any other interface assigned to that routing context.
Reference	**configure** service nat cpm-nat-policy *external-named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

cpm-spf-nat-policy *reference*

Synopsis	CPM NAT policy for static port forwards
Context	**configure** router *named-item-64* interface *interface-name* ipv4 nat cpm-spf-nat-policy *reference*
Tree	cpm-spf-nat-policy
Description	This command associates a CPM NAT policy to the interface for static port forwards. The configurations for traffic using static port forwards to a local IP address in the outside routing context are separate from those used for other CPM traffic going through NAT. This command allows the router to apply different NAT behavior for port-forwarded traffic than for general traffic originating from the local node.
Reference	**configure** service nat cpm-nat-policy *external-named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery

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Tree	neighbor-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-unsolicited *boolean*

Synopsis	Learn new entries from any received NA message
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery learn-unsolicited *boolean*
Tree	learn-unsolicited
Description	When configured to **true**, the router can learn neighbor entries from received unsolicited Neighbor Advertisement (NA) messages, with or without the solicited (S) flag set. The command can be enabled for global addresses, link-local addresses, or for both. When configured to **false**, the router follows standard behavior for learning neighbor entries. • If an unsolicited NA (regardless of the S flag) is received from a neighbor that is not yet in the Neighbor Discovery (ND) cache, the NA is ignored. • If an NS, RS, RA, or Redirect message with a Link Layer Address (MAC) is received from a neighbor that is not yet in the ND cache, a new neighbor entry is created in the cache to store the received Link Layer MAC. The neighbor is put in the STALE state.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

limit

Synopsis	Enter the **limit** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery limit
Tree	limit
Description	Commands in this context configure the maximum number of dynamic neighbor entries that can be learned on the interface When the number of entries reaches the threshold (the configured percentage) of this limit, the system sends an SNMP trap. When the limit is exceeded, the system learns no new entries until an entry expires and traffic to these destinations is dropped. Already learned entries are refreshed.
Introduced	25.3.R2
Platforms	SAR Gen 2

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log-only *boolean*

Synopsis	Generate log entries only if limit is reached
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

Synopsis	Maximum number of entries learned on an IP interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery limit max-entries *number*
Tree	max-entries
Range	0 to 524288
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold value that triggers a warning message
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery limit threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

local-proxy-arp *boolean*

Synopsis	Enable local proxy ARP on interface

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Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery local-proxy-arp *boolean*
Tree	local-proxy-arp
Description	When configured to **true**, the router enables local proxy ARP on the interface. When configured to **false**, the router does not respond to ARP requests for addresses on the same subnet.
Introduced	25.3.R2
Platforms	SAR Gen 2

proactive-refresh *boolean*

Synopsis	Send a single refresh message before entry timeout
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery proactive-refresh *boolean*
Tree	proactive-refresh
Description	When configured to **true**, the router always sends a refresh message 30 seconds before the timeout of the entry (a single refresh message with no retries). When configured to **false**, the router marks an entry as stale 30 seconds before age-out, and the router only sends an ARP request to refresh the entry if the IOM receives traffic that uses it. Then, the IOM asks the ARP application to send a refresh message. With ARP proactive refresh enabled, the ARP module sends a refresh message regardless of the IOM receiving traffic.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-arp-policy *reference*

Synopsis	Proxy ARP policy name
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery proxy-arp-policy *reference*
Tree	proxy-arp-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2

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Platforms	SAR Gen 2

remote-proxy-arp *boolean*

Synopsis	Enable remote proxy ARP on the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery remote-proxy-arp *boolean*
Tree	remote-proxy-arp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timer *number*

Synopsis	ARP retry interval
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery retry-timer *number*
Tree	retry-timer
Range	1 to 300
Units	deciseconds
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv4-address] *ipv4-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
Description	Commands in this context configure a static ARP entry that associates an IP address with a MAC address for the core router instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ipv4-address**] *ipv4-address*

Synopsis	IPv4 address that corresponds to the physical address
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address* mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor-unnumbered

Synopsis	Enable the **static-neighbor-unnumbered** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery static-neighbor-unnumbered
Tree	static-neighbor-unnumbered
Description	Commands in this context configure the static ARP MAC for an unnumbered interface. This entry overrides the dynamic ARP entry on the unnumbered interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mac-address *mac-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MAC address for the static neighbor
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery static-neighbor-unnumbered mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout for an ARP entry learned on the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 neighbor-discovery timeout *number*
Tree	timeout
Description	This command configures the minimum time an ARP entry learned on the IP interface is stored in the ARP table. ARP entries are automatically refreshed when an ARP request or gratuitous ARP is seen by an IP host. Otherwise, the ARP entry is aged from the ARP table.
Range	0 to 65535
Units	seconds
Default	14400
Introduced	25.3.R2
Platforms	SAR Gen 2

primary

Synopsis	Enable the **primary** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 primary
Tree	primary
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv4-unicast-address*

Synopsis	Primary IPv4 address assigned to the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 primary address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** router *named-item-64* interface *interface-name* ipv4 primary broadcast *keyword*
Tree	broadcast
Description	This command overrides the default broadcast address that the IP interface uses when sourcing IP broadcasts. This command does not affect the type of broadcasts the IP interface can receive. The IP interface can receive either the local broadcast or the valid subnet broadcast address sent by a host.
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

gre-termination *boolean*

Synopsis	Enable GRE termination
Context	**configure** router *named-item-64* interface *interface-name* ipv4 primary gre-termination *boolean*
Tree	gre-termination
Description	When configured to **true**, the router terminates MPLS-over-GRE and IP-over-GRE packets for destination IP addresses from a user-defined subnet. The user defines a subnet for the termination of GRE packets by executing this command on a numbered network IP interface or a loopback interface.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** router *named-item-64* interface *interface-name* ipv4 primary prefix-length *number*
Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** router *named-item-64* interface *interface-name* ipv4 primary tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

secondary [address] *ipv4-unicast-address*

Synopsis	Enter the **secondary** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipv4 secondary *ipv4-unicast-address*

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Tree	secondary
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis	Secondary IPv4 address assigned to the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 secondary *ipv4-unicast-address*
Tree	secondary
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** router *named-item-64* interface *interface-name* ipv4 secondary *ipv4-unicast-address* broadcast *keyword*
Tree	broadcast
Description	This command overrides the default broadcast address that the IP interface uses when sourcing IP broadcasts. This command does not affect the type of broadcasts the IP interface can receive. The IP interface can receive either the local broadcast or the valid subnet broadcast address sent by a host.
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-inhibit *boolean*

Synopsis	Disable the running IGP from recognizing secondary IP
Context	**configure** router *named-item-64* interface *interface-name* ipv4 secondary *ipv4-unicast-address* igp-inhibit *boolean*

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Tree	igp-inhibit
Description	When configured to **true**, the running IGP does not recognize the secondary IP address as a local interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** router *named-item-64* interface *interface-name* ipv4 secondary *ipv4-unicast-address* prefix-length *number*
Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** router *named-item-64* interface *interface-name* ipv4 secondary *ipv4-unicast-address* tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

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tcp-mss *number*

Synopsis	TCP maximum segment size for the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 tcp-mss *number*
Tree	tcp-mss
Range	384 to 9746
Introduced	25.3.R2
Platforms	SAR Gen 2

unnumbered

Synopsis	Enter the **unnumbered** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 unnumbered
Tree	unnumbered
Description	Commands in this context configure an IP interface as an unnumbered interface and specify the IP address to use for the interface. An operator can configure unnumbered interfaces to conserve IP addresses.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-unicast-address*

Synopsis	IP address to associate with unnumbered IP interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 unnumbered ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **ip-address**, **ip-int-name**, or **system**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-int-name *interface-name*

Synopsis	Unnumbered IP interface name

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Context	**configure** router *named-item-64* interface *interface-name* ipv4 unnumbered ip-int-name *interface-name*
Tree	ip-int-name
String length	1 to 32
Notes	The following elements are part of a choice: **ip-address**, **ip-int-name**, or **system**.
Introduced	25.3.R2
Platforms	SAR Gen 2

system

Synopsis	Use system IP address for the unnumbered IP interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 unnumbered system
Tree	system
Notes	The following elements are part of a choice: **ip-address**, **ip-int-name**, or **system**.
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-default *boolean*

Synopsis	Ignore default routes when performing a uRPF check
Context	**configure** router *named-item-64* interface *interface-name* ipv4 urpf-check ignore-default *boolean*
Tree	ignore-default
Description	When configured to **true**, the router ignores default routes while performing a uRPF check to determine the validity of incoming packets. When configured to **false**, default routes are considered eligible.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode
Context	**configure** router *named-item-64* interface *interface-name* ipv4 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp [virtual-router-id] *number*

Synopsis	Enter the **vrrp** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number*
Tree	vrrp
Description	Commands in this context configure a VRRP virtual router instance. A virtual router is defined by its Virtual Router Identifier (VRID) and a set of IP addresses.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual Router Identifier (VRID) for the IP interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number*
Tree	vrrp
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of VRRP
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* admin-state *keyword*
Tree	admin-state
Description	The command determines the administrative state of non-owner virtual router instances. Non-owner virtual router instances can be administratively disabled. This allows the termination of VRRP participation in the virtual router and stops all routing and other access capabilities with regards to the virtual router IP addresses. Disabling the virtual router instance provides a mechanism to maintain the virtual routers without causing false backup or master state changes. When **disabled**, no VRRP advertisement messages are generated and all received VRRP advertisement messages are silently discarded with no processing. Whenever the administrative or operational state of a virtual router instance transitions, a log message is generated. An owner virtual router context does not use this command. To administratively disable an owner virtual router instance, use the **admin-state** command within the parent IP interface node which administratively disables the IP interface.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Password for simple text authentication
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command optionally assigns a simple text password authentication key to generate master VRRP advertisement messages and validate received VRRP advertisement messages. If this command is re-executed with a different password key defined, the new key immediately replaces the old key. This command may be executed at any time. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94

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Introduced	25.3.R2
Platforms	SAR Gen 2

backup *ipv4-unicast-address*

Synopsis	Virtual router IP addresses for the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* backup *ipv4-unicast-address*
Tree	backup
Description	This command associates virtual router IP addresses with those of the parental IP interface. This command has two different functions based on whether it is being executed on an owner or non-owner virtual router instance. Non-owner virtual router instances create a routable IP interface address that is operationally dependent on the virtual router instance mode (master or backup). This command, when executed on an owner virtual router instance, does not create a routable IP interface address; it simply defines the existing IP addresses of the parental IP interface that are advertised by the virtual router instance. For owner virtual router instances, this command defines the IP addresses that are advertised within VRRP advertisement messages. This communicates the IP addresses that the master is advertising to backup virtual routers receiving the messages. The specified *unicast-ipv4-address* must be equal to one of the existing IP addresses in the parental IP interface (primary or secondary) or this command fails. See "Owner and non-owner VRRP" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about owner and non-owner virtual router instances.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* bfd-liveness
Tree	bfd-liveness
Description	Commands in this context assign a Bidirectional Forwarding Detection (BFD) session to a specific VRRP or SRRP instance. This BFD session provides a heartbeat mechanism that speeds up the transition of the standby VRRP router to an active state. If the associated BFD session fails, the VRRP routers immediately send a VRRP

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advertisement message. In addition, the standby VRRP routers transition to a master state to speed up convergence.

The VRRP election process takes place based on the advertisement messages sent by all VRRP routers.

Only one BFD session can be assigned to any VRRP or SRRP instance, but multiple SRRP or VRRP sessions can use the same BFD session.

Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Destination IP address to use for BFD session
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* bfd-liveness dest-ip *ipv4-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Name of the interface running BFD
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* bfd-liveness service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

init-delay *number*

Synopsis	VRRP initialization delay timer
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* init-delay *number*
Tree	init-delay
Range	1 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	Virtual MAC address to use in ARP responses
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* mac *mac-unicast-address*
Tree	mac
Description	This command sets an explicit MAC address for the virtual router instance that overrides the VRRP default derived from the VRID. Changing the default MAC address is useful when an existing HSRP or other non-VRRP default MAC is in use by the IP hosts that use the virtual router IP address. Many

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hosts do not monitor unessential ARPs and continue to use the cached non-VRRP MAC address after the virtual router becomes master of the host's gateway address.

Additionally, this command sets the MAC address used in ARP responses when the virtual router instance is master. Routing of IP packets with *unicast-mac-address* as the destination MAC is also enabled. The MAC must be the same for all virtual routers participating as a virtual router or indeterminate connectivity by the attached IP hosts results. All VRRP advertisement messages are transmitted with *unicast-mac-address* as the source MAC.

An operator can execute this command at any time and it takes effect immediately. When the virtual router MAC on a master virtual router instance changes, a gratuitous ARP is immediately sent with a VRRP advertisement message. If the virtual router instance is disabled or operating as a backup, the gratuitous ARP and VRRP advertisement messages are not sent.

String format 'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)

Introduced 25.3.R2

Platforms SAR Gen 2

master-int-inherit *boolean*

Synopsis Allow master instance to dictate the master down timer

Context **configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* master-int-inherit *boolean*

Tree master-int-inherit

Description When configured to **true**, the virtual router instance inherits the advertisement interval timer of the master VRRP router, which backup routers use to calculate the master down timer.

When configured to **false**, the locally configured message interval must match the master's VRRP advertisement message advertisement interval field value or the message is discarded.

Introduced 25.3.R2

Platforms SAR Gen 2

message-interval *number*

Synopsis Interval for sending VRRP advertisement messages

Context **configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* message-interval *number*

Tree message-interval

Description This command configures the administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages. The backup master down timer is derived from the value configured using this command.

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The usage of this command varies for non-owner virtual router instances, depending on the state of the virtual router (master or backup) and the state of the **master-int-inherit** command:

- When a non-owner is operating as master for the virtual router, the system uses the configured value of this command as the operational advertisement timer, similar to an owner virtual router instance. The **master-int-inherit** command has no effect when operating as master.
- When a non-owner is in the backup state with **master-int-inherit** disabled, the system uses the configured value of this command to match the incoming advertisement interval field of the VRRP advertisement message. If the locally configured message interval does not match the advertisement interval field, the system discards the VRRP advertisement.
- When a non-owner is in the backup state with **master-int-inherit** enabled, the configured value of this command is ignored. The master down timer is indirectly derived from the advertisement interval field value of the incoming VRRP advertisement message.

Range	1 to 2559
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VRRP instance to follow a specified operational group
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* monitor-oper-group *reference*
Tree	monitor-oper-group
Description	This command configures VRRP to associate with an operational group. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router, the operational group is up and the operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ntp-reply *boolean*

Synopsis	Allow processing of NTP requests
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* ntp-reply *boolean*
Tree	ntp-reply
Description	When configured to **true**, the router redirects NTP requests to the VRRP virtual IP address. This behavior only applies to the router acting as the master VRRP router. When configured to **false**, the router does not process NTP requests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group name associated with the VRRP
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* oper-group *reference*
Tree	oper-group
Description	This command configures an operational group to associate with the VRRP. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router (MR), the operational group is up. The operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate the virtual router instance as owner
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* owner *boolean*
Tree	owner

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Description	When configured to **true**, the router designates this virtual router instance as the owner of the virtual router IP addresses. Therefore, this virtual router becomes responsible for forwarding packets sent to the virtual router IP addresses. The owner also assumes the role of master virtual router. When configured to **false**, this virtual router instance is designated as a non-owner.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Suppress the processing of VRRP advertisement messages
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* passive *boolean*
Tree	passive
Description	When configured to **true**, the router identifies this virtual router instance as passive; and therefore the owner of the virtual router IP addresses. A passive virtual router instance does not transmit or receive VRRP advertisement messages and is always in either the master state (if the interface is operationally up) or the init state (if the interface is operationally down). When configured to **false**, this virtual router instance is not identified as passive, meaning that it transmits and receives VRRP advertisement messages.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ping-reply *boolean*

Synopsis	Allow non-owner master to reply to ICMP echo requests
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* ping-reply *boolean*
Tree	ping-reply
Description	When configured to **true**, the router allows the non-owner master to reply to ICMP echo requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the ping request. Ping must not have been disabled at the management security level (either on the parental IP interface or on the Ping source host address).

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When configured to **false**, ICMP echo requests sent to non-owner master virtual IP addresses are silently discarded.

Non-owner backup virtual routers never respond to ICMP echo requests, regardless of the configuration of this command.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

policy *reference*

Synopsis VRRP priority control policy

Context **configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* policy *reference*

Tree policy

Description This command configures a VRRP priority control policy to associate with the virtual router instance.

VRRP priority control policies can override or adjust the base priority value of the virtual router instance, depending on events or conditions within the chassis.

An operator can associate a policy with more than one virtual router instance. The priority events within the policy either override or diminish the base priority set with the **priority** command. As priority events clear in the policy, the in-use priority can eventually be restored to the base priority value.

For non-owner virtual router instances, if this command is not executed, the base priority is used as the in-use priority.

Reference **configure** vrrp policy *number*

Introduced 25.3.R2

Platforms SAR Gen 2

preempt *boolean*

Synopsis Allow the VRRP to override an existing non-owner master

Context **configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* preempt *boolean*

Tree preempt

Description When configured to **true**, this virtual router instance overrides any non-owner master with an in-use message priority value less than the in-use priority value of this virtual router.

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When configured to **false**, this virtual router only becomes master if the master down timer expires before a VRRP advertisement message is received from another virtual router.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

priority *number*

Synopsis Base priority for the VRRP

Context **configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* priority *number*

Tree priority

Description This command configures the base router priority for the virtual router instance, which defines the selection order of the virtual router in the master election process.

The in-use priority is derived from the base priority. However, the in-use priority is modified by optional VRRP priority control policies. An operator can use VRRP priority control policies to either override or adjust the base priority value depending on events or conditions within the chassis.

Range 1 to 255

Introduced 25.3.R2

Platforms SAR Gen 2

ssh-reply *boolean*

Synopsis Allow the non-owner master to reply to SSH requests

Context **configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* ssh-reply *boolean*

Tree ssh-reply

Description When configured to **true**, the router allows the non-owner master to reply to SSH requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the SSH request. SSH cannot be disabled at the management security level (either on the parental IP interface or on the SSH source host address).

When configure to **false**, SSH requests to non-owner master virtual IP addresses are silently discarded.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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standby-forwarding *boolean*

Synopsis	Allow standby router to forward traffic
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* standby-forwarding *boolean*
Tree	standby-forwarding
Description	When configured to **true**, the standby router forwards all traffic. When configured to **false**, the standby router cannot forward traffic sent to the MAC address of the virtual router. However, the standby router still forwards traffic sent to its own MAC address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-reply *boolean*

Synopsis	Allow non-owner master to reply to Telnet requests
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* telnet-reply *boolean*
Tree	telnet-reply
Description	When configured to **true**, the router allows the non-owner master to reply to Telnet requests directed at the IP addresses of the virtual router instance. Any routed interface can receive Telnet requests. Telnet cannot be disabled at the management security level (either on the parental IP interface or on the Telnet source host address). When configured to **false**, the router silently discards Telnet requests sent to non-owner master virtual IP addresses.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traceroute-reply *boolean*

Synopsis	Allow non-owner master to reply to traceroute requests
Context	**configure** router *named-item-64* interface *interface-name* ipv4 vrrp *number* traceroute-reply *boolean*
Tree	traceroute-reply
Description	When configured to **true**, the router allows a non-owner master to reply to traceroute requests directed to the IP addresses of the virtual router instance.

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When configured to **false**, the router silently discards traceroute requests sent to non-owner master virtual IP addresses.

Traceroute must not have been disabled at the management security level (either on the parental IP interface or the source host address).

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

ipv6

Synopsis Enable the **ipv6** context

Context **configure** router *named-item-64* interface *interface-name* ipv6

Tree ipv6

Introduced 25.3.R2

Platforms SAR Gen 2

address [ipv6-address] *ipv6-address*

Synopsis Enter the **address** list instance

Context **configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address*

Tree address

Description Commands in this context assign an IPv6 address to the interface.

A global IPv6 address and *prefix-length* combined create a locally configured interface IPv6 prefix and subnet. The defined global IP prefix must be unique within the context of a routing instance. It cannot overlap with any other existing global IP prefix defined on another IP interface within the same routing context.

This overlap restriction is not applicable for IPv6 host addresses configured on loopback interfaces. For example, an IPv6 loopback host address configured on a loopback interface may overlap with another prefix subnet configured on another IP interface within the same routing context.

Introduced 25.3.R2

Platforms SAR Gen 2

[ipv6-address] *ipv6-address*

Synopsis IPv6 address assigned to the interface

Context **configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address*

Tree address

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Enable Duplicate Address Detection
Context	**configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address* duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD). When configured to **false**, the router disables DAD and sets the address to preferred, even if there is a duplicated address.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

eui-64 *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Form IPv6 address from prefix and 64-bit interface ID
Context	**configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address* eui-64 *boolean*
Tree	eui-64
Description	When configured to **true**, the router forms a complete IPv6 address from the supplied prefix and 64-bit interface identifier. The 64-bit interface identifier is derived from the MAC address on Ethernet interfaces. For interfaces without a MAC address, for example POS interfaces, use the base MAC address of the chassis.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-length *number*

Synopsis	IPv6 address prefix length
Context	**configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address* prefix-length *number*
Tree	prefix-length
Range	4 to 128
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-preference *number*

Synopsis	Index assigned to the IPv6 address of the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address* primary-preference *number*
Tree	primary-preference
Description	This command assigns a primary preference index to an IPv6 address of the interface to enforce the order in which the address is used by control plane protocols and applications that require a fixed address of the interface, such as LDP and Segment Routing. In cases where a fixed address is required when originating packets from the interface, the IPv6 address with the lowest primary preference index is selected. If the selected address is removed, the next IPv6 address with the next lowest primary preference index is selected. If this index is not specified for the IPv6 address, the system assigns the next available index value to the address. The address index space is unique across all addresses of a given interface.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** router *named-item-64* interface *interface-name* ipv6 address *ipv6-address* tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route

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created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.

Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** router *named-item-64* interface *interface-name* ipv6 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds
Introduced	25.3.R2

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Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** router *named-item-64* interface *interface-name* ipv6 bfd multiplier *number*
Tree	multiplier
Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.
Range	1 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.
Range	10 to 100000

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Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

Synopsis	Enable Duplicate Address Detection
Context	**configure** router *named-item-64* interface *interface-name* ipv6 duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD) on the interface. When configured to **false**, the router disables DAD on a per-interface basis. This prevents the router from performing a DAD check on the interface. All IPv6 addresses on an interface with DAD disabled, immediately enter a preferred state, without checking for uniqueness on the interface. This is useful for interfaces that enter a looped state during troubleshooting and are operationally disabled when the loop is detected, requiring manual intervention to clear the DAD violation.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

forward-ipv4-packets *boolean*

Synopsis	Forward unencapsulated IPv4 packets
Context	**configure** router *named-item-64* interface *interface-name* ipv6 forward-ipv4-packets *boolean*
Tree	forward-ipv4-packets
Description	When configured to **true**, the router can use an IPv6-only interface, with no configured IPv4 addresses, to forward IPv4 packets that originate or terminate locally. The interface reports that its IPv4 operational state is up if its IPv6 operational state is up. Not all protocols observe the interface as up from an IPv4 perspective. This command mostly supports BGP routing use cases; see RFC 5549 for details. When configured to **false**, the router prevents IPv4 packets from being forwarded if there are no configured IPv4 subnets.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6
Tree	icmp6
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

Synopsis	Enter the **packet-too-big** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 packet-too-big
Tree	packet-too-big
Description	Commands in this context configure limiting the number of ICMPv6 Packet Too Big messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number of Packet Too big Messages issued per time frame
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 packet-too-big number *number*

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Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit Packet Too Big messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 packet-too-big seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 param-problem
Tree	param-problem
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Parameter Problem message sends
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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number *number*

Synopsis	Number used to limit ICMPv6 Parameter Problem messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Parameter Problem messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 param-problem seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

redirects

Synopsis	Enter the **redirects** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 redirects
Tree	redirects
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Redirect message sends
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 redirects admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit ICMPv6 Redirect messages per time frame
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Redirect messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 redirects seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

time-exceeded

Synopsis	Enter the **time-exceeded** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 time-exceeded
Tree	time-exceeded
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of Time Exceeded message sends
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 time-exceeded admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit Time Exceeded messages per time frame
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 time-exceeded number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Time Exceeded messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 time-exceeded seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context

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Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 unreachables
Tree	unreachables
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Unreachable message sends
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit Unreachable messages per time frame
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 unreachables number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Unreachable messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 icmp6 unreachables seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2

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Platforms	SAR Gen 2

link-local-address

Synopsis	Enter the **link-local-address** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 link-local-address
Tree	link-local-address
Description	Commands in this context configure the IPv6 link-local address that is used as a virtual SRRP IPv6 address by the master SRRP node. This address is sent in the Router Advertisements initiated by the master SRRP node. Clients use this address as IPv6 default-gateway. Both SRRP nodes, master and backup, must be configured with the same link-local address. Only one link-local address is allowed per interface. **Caution**: Removing a manually configured link-local address may impact routing protocols or static routes that have a dependency on that address. Nokia does not recommend removing a link-local address when there are active IPv6 subscriber hosts on an IES or VPRN interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

Synopsis	IPv6 link-local address
Context	**configure** router *named-item-64* interface *interface-name* ipv6 link-local-address address *ipv6-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

Synopsis	Enable Duplicate Address Detection
Context	**configure** router *named-item-64* interface *interface-name* ipv6 link-local-address duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD) on the interface. When configured to **false**, the router disables DAD and sets the address to preferred, even if there is a duplicated address.

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *reference*

Synopsis	DHCP server for the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 local-dhcp-server *reference*
Tree	local-dhcp-server
Description	This command instantiates a local DHCP server. A local DHCP server can serve multiple interfaces but is limited to the routing context in which it was created.
Reference	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-unsolicited *keyword*

Synopsis	Type of entries learned from unsolicited NA messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery learn-unsolicited *keyword*
Tree	learn-unsolicited
Description	This command enables the ability to learn neighbor entries out of received unsolicited Neighbor Advertisement (NA) messages, with or without the solicited flag set. When unconfigured, the router follows standard RFC 4861 behavior for learning of neighbor entries. The neighbor is put in the stale state. This is the standard RFC behavior.
Options	global, link-local, both
Introduced	25.3.R2

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Platforms	SAR Gen 2

limit

Synopsis	Enter the **limit** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery limit
Tree	limit
Description	Commands in this context configure the maximum amount of dynamic IPv6 neighbor entries that can be learned on an IP interface. When the number of dynamic neighbor entries reaches the configured percentage of this limit the system sends an SNMP trap. When the limit is exceeded, no new entries are learned until an entry expires and traffic to these destinations is dropped. Entries that have already been learned are refreshed.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Generate log entries when limit is reached
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery limit log-only *boolean*
Tree	log-only
Description	When configured to **true**, the router sends the warning message at the specified threshold percentage or upon exceeding the specified limit. Entries that exceed the limit are learned. When configured to **false**, the router does not send the warning message.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

Synopsis	Maximum number of entries learned on an IP interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery limit max-entries *number*
Tree	max-entries
Description	This command configures the maximum number of entries that can be learned on an IP interface.

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When unconfigured, no maximum limit is imposed.

Range	0 to 102400
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold percentage that triggers a warning message
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery limit threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

local-proxy-nd *boolean*

Synopsis	Enable local proxy neighbor discovery on the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery local-proxy-nd *boolean*
Tree	local-proxy-nd
Description	When configured to **true**, the router enables local proxy neighbor discovery on the interface and replies to neighbor solicitation requests when both the hosts are on the same subnet. In this case, ICMP redirects are disabled. When configured to **false**, the router disables local proxy neighbor discovery on the interface and does not reply to neighbor solicitation requests if both the hosts are on the same subnet.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proactive-refresh *keyword*

Synopsis	Proactive refresh of neighbor entries

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Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery proactive-refresh *keyword*
Tree	proactive-refresh
Description	This command enables a proactive refresh of the neighbor entries. After the stale timer expires, the router sends an NUD message to the host (regardless of the existence of traffic to the IP address on the IOM), so the entry can be refreshed or removed.
Options	global, link-local, both
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-nd-policy *reference*

Synopsis	Proxy Neighbor Discovery policy name for the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery proxy-nd-policy *reference*
Tree	proxy-nd-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

reachable-time *number*

Synopsis	Neighbor reachability detection timer
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery reachable-time *number*
Tree	reachable-time
Range	30 to 3600
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-time *number*

Synopsis	Time a Neighbor Discovery cache entry remains stale

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Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery stale-time *number*
Tree	stale-time
Range	60 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv6-address] *ipv6-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address*
Tree	static-neighbor
Description	Commands in this context configure an IPv6-to-MAC address mapping on the interface. Use this command if a directly attached IPv6 node does not support ICMPv6 neighbor discovery, or for some reason, a static address must be used. This command can only be used on Ethernet media. The IPv6 address must be on the subnet that was configured from the IPv6 **address** or a **link-local-address** commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address corresponding to the physical address
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address*
Tree	static-neighbor
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** router *named-item-64* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address* mac-address *mac-address*

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Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size for the IPv6 interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 tcp-mss *number*
Tree	tcp-mss
Range	1220 to 9726
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-default *boolean*

Synopsis	Ignore default route when performing a uRPF check
Context	**configure** router *named-item-64* interface *interface-name* ipv6 urpf-check ignore-default *boolean*
Tree	ignore-default
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode

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Context	**configure** router *named-item-64* interface *interface-name* ipv6 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp [virtual-router-id] *number*

Synopsis	Enter the **vrrp** list instance
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number*
Tree	vrrp
Description	Commands in this context configure a VRRP virtual router instance. A virtual router is defined by its virtual router identifier (VRID) and a set of IP addresses.
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual Router Identifier (VRID) for the IP interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number*
Tree	vrrp
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of VRRP
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* admin-state *keyword*

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Tree	admin-state
Description	The command determines the administrative state of non-owner virtual router instances. Non-owner virtual router instances can be administratively disabled. This allows the termination of VRRP participation in the virtual router and stops all routing and other access capabilities with regards to the virtual router IP addresses. Disabling the virtual router instance provides a mechanism to maintain the virtual routers without causing false backup or master state changes. When **disabled**, no VRRP advertisement messages are generated and all received VRRP advertisement messages are silently discarded with no processing. Whenever the administrative or operational state of a virtual router instance transitions, a log message is generated. An owner virtual router context does not use this command. To administratively disable an owner virtual router instance, use the **admin-state** command within the parent IP interface node which administratively disables the IP interface.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup *ipv6-address*

Synopsis	Virtual router IP addresses for the interface
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* backup *ipv6-address*
Tree	backup
Description	This command associates router IPv6 virtual router IP addresses with those of the parental IP interface. This command has two different functions based on whether it is being executed on an owner or non-owner virtual router instance. Non-owner virtual router instance create a routable IP interface address that is operationally dependent on the virtual router instance mode (master or backup). This command, when executed on an owner virtual router instance, does not create a routable IP interface address; it simply defines the existing IP addresses of the parental IP interface that are advertised by the virtual router instance. For owner virtual router instances, this command defines the IP addresses that are advertised within VRRP advertisement messages. This communicates the IP addresses that the master is representing to backup virtual routers receiving the messages. The specified IPv6 address must be equal to one of the existing parental IP addresses in the parental IP interface (primary or secondary) or this command fails. See "Owner and non-owner VRRP" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about owner and non-owner virtual router instances.

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Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* bfd-liveness
Tree	bfd-liveness
Description	Commands in this context assign a bidirectional forwarding detect (BFD) session to a specific VRRP or SRRP instance. This BFD session provides a heartbeat mechanism for use in speeding up the transition of the standby VRRP router to an active state. If the associated BFD session fails, the VRRP routers immediately send a VRRP Advertisement message. In addition, the standby VRRP routers transition to a Master state to speed convergence. The normal VRRP election process takes place based on the Advertisement messages sent by all VRRP routers. There can be only one BFD session assigned to any specific VRRP or SRRP instance, but there can be multiple SRRP or VRRP sessions using the same BFD session.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Destination address for the BFD session
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* bfd-liveness dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *interface-name*

WARNING:
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Synopsis	Name of the interface running BFD
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* bfd-liveness service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

init-delay *number*

Synopsis	VRRP initialization delay timer
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* init-delay *number*
Tree	init-delay
Range	1 to 65535

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Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	Virtual MAC address to use in ARP responses
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* mac *mac-unicast-address*
Tree	mac
Description	This command sets an explicit MAC address for the virtual router instance that overrides the VRRP default derived from the VRID. Changing the default MAC address is useful when an existing HSRP or other non-VRRP default MAC is in use by the IP hosts that use the virtual router IP address. Many hosts do not monitor unessential ARPs and continue to use the cached non-VRRP MAC address after the virtual router becomes master of the host's gateway address. Additionally, this command sets the MAC address used in ARP responses when the virtual router instance is master. Routing of IP packets with *unicast-mac-address* as the destination MAC is also enabled. The MAC must be the same for all virtual routers participating as a virtual router or indeterminate connectivity by the attached IP hosts results. All VRRP advertisement messages are transmitted with *unicast-mac-address* as the source MAC. An operator can execute this command at any time and it takes effect immediately. When the virtual router MAC on a master virtual router instance changes, a gratuitous ARP is immediately sent with a VRRP advertisement message. If the virtual router instance is disabled or operating as a backup, the gratuitous ARP and VRRP advertisement messages are not sent.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

master-int-inherit *boolean*

Synopsis	Allow master instance to dictate the master down timer
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* master-int-inherit *boolean*
Tree	master-int-inherit
Description	When configured to **true**, the virtual router instance inherits the advertisement interval timer of the master VRRP router, which backup routers use to calculate the master down timer.

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When configured to **false**, the locally configured message interval must match the master's VRRP advertisement message advertisement interval field value or the message is discarded.

Introduced 25.3.R2

Platforms SAR Gen 2

message-interval *number*

Synopsis Interval for sending VRRP advertisement messages

Context **configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* message-interval *number*

Tree message-interval

Description This command configures the administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages. The backup master down timer is derived from the value configured using this command.

The use of this command varies for non-owner virtual router instances, depending on the state of the virtual router (master or backup) and the state of the **master-int-inherit** command:

- When a non-owner is operating as master for the virtual router, the system uses the configured value of this command as the operational advertisement timer, similar to an owner virtual router instance. The **master-int-inherit** command has no effect when operating as the master.
- When a non-owner is in the backup state with **master-int-inherit** disabled, the system uses the configured value of this command to match the incoming advertisement interval field of the VRRP advertisement message. If the locally configured message interval does not match the advertisement interval field, the system discards the VRRP advertisement.
- When a non-owner is in the backup state with **master-int-inherit** enabled, the configured value of this command is ignored. The master down timer is indirectly derived from the advertisement interval field value of the incoming VRRP advertisement message.

Range 10 to 4095

Units centiseconds

Default 100

Introduced 25.3.R2

Platforms SAR Gen 2

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monitor-oper-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VRRP instance to follow a specified operational group
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* monitor-oper-group *reference*
Tree	monitor-oper-group
Description	This command configures VRRP to associate with an operational group. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router, the operational group is up and the operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp-reply *boolean*

Synopsis	Allow processing of NTP requests
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* ntp-reply *boolean*
Tree	ntp-reply
Description	When configured to **true**, the router redirects NTP requests to the VRRP virtual IP address. This behavior only applies to the router acting as the master VRRP router. When configured to **false**, the router does not process NTP requests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group name associated with the VRRP
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* oper-group *reference*
Tree	oper-group

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Description	This command configures an operational group to associate with the VRRP. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router (MR), the operational group is up. The operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate the virtual router instance as owner
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* owner *boolean*
Tree	owner
Description	When configured to **true**, the router designates this virtual router instance as the owner of the virtual router IP addresses. Therefore, this virtual router becomes responsible for forwarding packets sent to the virtual router IP addresses. The owner also assumes the role of master virtual router. When configured to **false**, this virtual router instance is designated as a non-owner.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Suppress the processing of VRRP advertisement messages
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* passive *boolean*
Tree	passive
Description	When configured to **true**, the router identifies this virtual router instance as passive; and therefore the owner of the virtual router IP addresses. A passive virtual router instance

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does not transmit or receive VRRP advertisement messages and is always in either the master state (if the interface is operationally up) or the init state (if the interface is operationally down).

When configured to **false**, this virtual router instance is not identified as passive, meaning that it transmits and receives VRRP advertisement messages.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ping-reply *boolean*

Synopsis	Allow non-owner master to reply to ICMP echo requests
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* ping-reply *boolean*
Tree	ping-reply
Description	When configured to **true**, the router allows the non-owner master to reply to ICMP echo requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the ping request. Ping must not have been disabled at the management security level (either on the parental IP interface or on the Ping source host address). When configured to **false**, ICMP echo requests sent to non-owner master virtual IP addresses are silently discarded. Non-owner backup virtual routers never respond to ICMP echo requests, regardless of the configuration of this command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	VRRP priority control policy
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* policy *reference*
Tree	policy
Description	This command configures a VRRP priority control policy to associate with the virtual router instance. VRRP priority control policies can override or adjust the base priority value of the virtual router instance, depending on events or conditions within the chassis. An operator can associate a policy with more than one virtual router instance. The priority events within the policy either override or diminish the base priority set with

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the **priority** command. As priority events clear in the policy, the in-use priority can eventually be restored to the base priority value.

For non-owner virtual router instances, if this command is not executed, the base priority is used as the in-use priority.

Reference	**configure** vrrp policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

preempt *boolean*

Synopsis	Allow the VRRP to override an existing non-owner master
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* preempt *boolean*
Tree	preempt
Description	When configured to **true**, this virtual router instance overrides any non-owner master with an in-use message priority value less than the in-use priority value of this virtual router. When configured to **false**, this virtual router only becomes master if the master down timer expires before a VRRP advertisement message is received from another virtual router.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Base priority for the VRRP
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* priority *number*
Tree	priority
Description	This command configures the base router priority for the virtual router instance, which defines the selection order of the virtual router in the master election process. The in-use priority is derived from the base priority. However, the in-use priority is modified by optional VRRP priority control policies. An operator can use VRRP priority control policies to either override or adjust the base priority value depending on events or conditions within the chassis.
Range	1 to 255
Introduced	25.3.R2

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Platforms	SAR Gen 2

standby-forwarding *boolean*

Synopsis	Allow standby router to forward traffic
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* standby-forwarding *boolean*
Tree	standby-forwarding
Description	When configured to **true**, the standby router forwards all traffic. When configured to **false**, the standby router cannot forward traffic sent to the MAC address of the virtual router. However, the standby router still forwards traffic sent to its own MAC address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-reply *boolean*

Synopsis	Allow non-owner master to reply to Telnet requests
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* telnet-reply *boolean*
Tree	telnet-reply
Description	When configured to **true**, the router allows the non-owner master to reply to Telnet requests directed at the IP addresses of the virtual router instance. Any routed interface can receive Telnet requests. Telnet cannot be disabled at the management security level (either on the parental IP interface or on the Telnet source host address). When configured to **false**, the router silently discards Telnet requests sent to non-owner master virtual IP addresses.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traceroute-reply *boolean*

Synopsis	Allow non-owner master to reply to traceroute requests
Context	**configure** router *named-item-64* interface *interface-name* ipv6 vrrp *number* traceroute-reply *boolean*
Tree	traceroute-reply

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Description	When configured to **true**, the router allows a non-owner master to reply to traceroute requests directed to the IP addresses of the virtual router instance. When configured to **false**, the router silently discards traceroute requests sent to non-owner master virtual IP addresses. Traceroute must not have been disabled at the management security level (either on the parental IP interface or the source host address).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Enter the **lag** context
Context	**configure** router *named-item-64* interface *interface-name* lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-sync-timer

Synopsis	Enter the **ldp-sync-timer** context
Context	**configure** router *named-item-64* interface *interface-name* ldp-sync-timer
Tree	ldp-sync-timer
Description	Commands in this context set associated parameters for the synchronization of an IGP and LDP.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-of-lib *boolean*

Synopsis	Terminate LDP synchronization timer
Context	**configure** router *named-item-64* interface *interface-name* ldp-sync-timer end-of-lib *boolean*
Tree	end-of-lib
Description	This command configures the system to terminate the LDP synchronization timer early for a specific session to an LDP peer, if the IGP interface receives LDP End-of-LIB Typed Wildcard FEC messages for every FEC type negotiated.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time interval for the LDP synchronization timer
Context	**configure** router *named-item-64* interface *interface-name* ldp-sync-timer seconds *number*
Tree	seconds
Range	1 to 1800
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing

Synopsis	Enter the **load-balancing** context
Context	**configure** router *named-item-64* interface *interface-name* load-balancing
Tree	load-balancing
Description	Commands in this context configure interface per-flow load-balancing options that apply to traffic that enters this interface and that egresses over a LAG or ECMP. This is a per-interface setting. Load-balancing options enabled on the interface level overwrite options that can also be enabled on the system level.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-load-balancing *keyword*

Synopsis	IP load-balancing algorithm
Context	**configure** router *named-item-64* interface *interface-name* load-balancing ip-load-balancing *keyword*
Tree	ip-load-balancing
Description	This command specifies whether to include the source address, destination address, or both in LAG or ECMP hash on IP interfaces. Additionally, when the **l4-load-balancing** command is enabled, this command also includes the source or destination port in the hash inputs.
Options	both, destination, source, inner-ip

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Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

lsr-load-balancing *keyword*

Synopsis	LSR load-balancing algorithm
Context	**configure** router *named-item-64* interface *interface-name* load-balancing lsr-load-balancing *keyword*
Tree	lsr-load-balancing
Description	This command specifies whether the IP header is used in the LAG and ECMP LSR hashing algorithm. This is the per-interface setting.
Options	lbl-only, lbl-ip, ip-only, eth-encap-ip, lbl-ip-l4-teid
Introduced	25.3.R2
Platforms	SAR Gen 2

loopback

Synopsis	Use interface as a loopback interface
Context	**configure** router *named-item-64* interface *interface-name* loopback
Tree	loopback
Description	When configured, this interface is used as a loopback interface. This command and the **vas-if-type** command are mutually exclusive.
Notes	The following elements are part of a choice: **loopback** or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	MAC address of the interface
Context	**configure** router *named-item-64* interface *interface-name* mac *mac-unicast-address*
Tree	mac
Description	This command assigns a specific MAC address to an IP interface. Only one MAC address can be assigned to an IP interface. When multiple **mac** commands are entered, the last command overwrites the previous command.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)

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Introduced	25.3.R2
Platforms	SAR Gen 2

mac-accounting *boolean*

Synopsis	Enable MAC accounting functionality
Context	**configure** router *named-item-64* interface *interface-name* mac-accounting *boolean*
Tree	mac-accounting
Description	When configured to **true**, the router enables MAC accounting functionality.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

network-domains

Synopsis	Enter the **network-domains** context
Context	**configure** router *named-item-64* interface *interface-name* network-domains
Tree	network-domains
Introduced	25.3.R2
Platforms	SAR Gen 2

network-domain [domain-name] *reference*

Synopsis	Add a list entry for **network-domain**
Context	**configure** router *named-item-64* interface *interface-name* network-domains network-domain *reference*
Tree	network-domain
Description	Commands in this context assign an interface to a network domain. The router then takes the network domain into account during SAP ingress queue allocation for VPLS SAP. The network domain association can only be done in the base routing context. An operator can associate a network domain with an interface without a physical port being specified, but the configuration has no effect until a corresponding port, or LAG, is defined. Single interfaces can be associated with multiple network domains.
Max. instances	5

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**domain-name**] *reference*

Synopsis	Network domain name
Context	**configure** router *named-item-64* interface *interface-name* network-domains network-domain *reference*
Tree	network-domain
Reference	**configure** router *named-item-64* network-domains network-domain *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *(port-and-encap | keyword)*

Synopsis	Port to bind to this interface
Context	**configure** router *named-item-64* interface *interface-name* port *(port-and-encap | keyword)*
Tree	port
Description	This command creates an association between a logical IP interface and a physical port. An operator can also associate an interface with the system (loopback address).
String length	1 to 45
Options	system
Notes	The following elements are part of a choice: **loopback** or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp-hw-assist

Synopsis	Enter the **ptp-hw-assist** context
Context	**configure** router *named-item-64* interface *interface-name* ptp-hw-assist
Tree	ptp-hw-assist
Description	Commands in this context enable the port-based timestamping assist of PTP packets at the physical interface. This capability is supported on specific hardware. The command may be blocked if not all hardware has the required level of support.

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Only one interface per physical port can have port-based timestamping assist enabled. This feature cannot be enabled if the physical port supporting the interface is configured as a PTP port.

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis Administrative state of the PTP timestamping assist

Context **configure** router *named-item-64* interface *interface-name* ptp-hw-assist admin-state *keyword*

Tree admin-state

Options enable, disable

Default disable

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

qos

Synopsis Enter the **qos** context

Context **configure** router *named-item-64* interface *interface-name* qos

Tree qos

Description Commands in this context associate a network QoS policy with a network IP interface. Only one network QoS policy can be associated with an IP interface at one time. Attempts to associate a second QoS policy return an error.

Introduced 25.3.R2

Platforms SAR Gen 2

egress-instance *number*

Synopsis Port egress queue group instance for this interface

Context **configure** router *named-item-64* interface *interface-name* qos egress-instance *number*

Tree egress-instance

Description This command specifies which instance to associate with this specific network IP interface since multiple instances of the same egress queue-group can be applied to the same port.

Range 1 to 65535

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Introduced	25.3.R2
Platforms	SAR Gen 2

egress-port-redirect-group *reference*

Synopsis	QoS queue group name
Context	**configure** router *named-item-64* interface *interface-name* qos egress-port-redirect-group *reference*
Tree	egress-port-redirect-group
Description	This command configures the egress queue group used for all egress forwarding-class redirections specified within the network QoS policy ID. The specified queue group name must exist as an egress queue group applied to the egress context of the port associated with the IP interface.
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress-fp-redirect-group *reference*

Synopsis	Forwarding plane queue group policy for the interface
Context	**configure** router *named-item-64* interface *interface-name* qos ingress-fp-redirect-group *reference*
Tree	ingress-fp-redirect-group
Description	This command configures the ingress queue-group used for all ingress forwarding-class redirections specified within the network QoS policy ID. The specified queue group name must exist as an ingress queue group applied to the ingress context of the forwarding plane associated with the IP interface.
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress-instance *number*

Synopsis	Forwarding plane ingress queue group for this interface
Context	**configure** router *named-item-64* interface *interface-name* qos ingress-instance *number*
Tree	ingress-instance

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Description	This command configures which instance to associate with this specific network IP interface. An operator can apply multiple instances of the same ingress queue group to the same forwarding plane.
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

network-policy *reference*

Synopsis	Network policy name associated with a network interface
Context	**configure** router *named-item-64* interface *interface-name* qos network-policy *reference*
Tree	network-policy
Description	This command associates an existing network policy name with the IP interface.
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

tos-marking-state *keyword*

Synopsis	TOS marking state
Context	**configure** router *named-item-64* interface *interface-name* tos-marking-state *keyword*
Tree	tos-marking-state
Description	This command configures the ToS marking state. This command is used to alter the default trusted state to a non-trusted state. When configured to **trusted** or default, the ToS field is not remarked by egress network IP interfaces unless the egress network IP interface has the remark-trusted state set, in which case the egress network interface treats all VPRN and network IP interfaces as untrusted. When configured to **untrusted**, all egress network IP interfaces remark IP packets received on the network interface according to the egress marking defintions on each network interface.
Options	trusted, untrusted
Default	trusted
Introduced	25.3.R2
Platforms	SAR Gen 2

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untrusted

Synopsis	Enable the **untrusted** context
Context	**configure** router *named-item-64* interface *interface-name* untrusted
Tree	untrusted
Description	Commands in this context configure the untrusted state for a network IP interface. The untrusted state identifies the participating interfaces in the label security feature for prefixes of a VPN family at an inter-AS boundary. The router supports a maximum of 15 network interfaces that can participate in this feature. The user normally applies this command to an inter-AS interface. PIP keeps track of the untrusted status of each interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-forwarding *keyword*

Synopsis	Default action for selective ILM
Context	**configure** router *named-item-64* interface *interface-name* untrusted default-forwarding *keyword*
Tree	default-forwarding
Description	This command specifies the default forwarding behavior of labeled packets received on this interface. This command sets the default behavior for an untrusted interface in the datapath and for all ILMs. When enabling the label security for VPN IPv4 or VPN IPv6 prefixes, BGP programs the data path to provide an exception to the normal way of forwarding away from the default for those VPRN ILMs. When the default behavior is to forward packets, the router checks labeled packets in the normal way against the table of programmed ILMs to decide if packets are dropped or forwarded in a GRT, a VRF, or a L2 service context. When the specified behavior is to drop packets, all labeled packets received on the interface are automatically dropped.
Options	forward, drop
Default	forward
Introduced	25.3.R2
Platforms	SAR Gen 2

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urpf-selected-vprns *boolean*

Synopsis	Enable uRPF checking of incoming traffic on interface
Context	**configure** router *named-item-64* interface *interface-name* urpf-selected-vprns *boolean*
Tree	urpf-selected-vprns
Description	When configured to **true**, the router performs uRPF checks of incoming traffic on the network interface for the following: • Packets associated with the global routing table (base router) context • Packets associated with VPRNs that have enabled the uRPF check using the **configure service vprn network ingress urpf-check** command When configured to **false**, the router performs uRPF checks for all ingress traffic on the network interface (associated with the base router and all VPRNs) based on the IPv4 and IPv6 **urpf-check** command configuration options of the network interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vas-if-type *keyword*

Synopsis	Value Added Service (VAS) facing interface type
Context	**configure** router *named-item-64* interface *interface-name* vas-if-type *keyword*
Tree	vas-if-type
Options	to-from-access, to-from-network, to-from-both
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec

Synopsis	Enter the **ipsec** context
Context	**configure** router *named-item-64* ipsec
Tree	ipsec
Introduced	25.3.R2
Platforms	SAR Gen 2

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multi-chassis-shunt-interface [name] *interface-name*

Synopsis	Enter the **multi-chassis-shunt-interface** list instance
Context	**configure** router *named-item-64* ipsec multi-chassis-shunt-interface *interface-name*
Tree	multi-chassis-shunt-interface
Description	This command configures the multi-chassis shunting interface name for the peer.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *interface-name*

Synopsis	Multi-chassis shunt interface name
Context	**configure** router *named-item-64* ipsec multi-chassis-shunt-interface *interface-name*
Tree	multi-chassis-shunt-interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enter the **next-hop** context
Context	**configure** router *named-item-64* ipsec multi-chassis-shunt-interface *interface-name* next-hop
Tree	next-hop
Description	Commands in this context configure the next hop for shunting over the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next hop address for the shunting interface
Context	**configure** router *named-item-64* ipsec multi-chassis-shunt-interface *interface-name* next-hop address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address

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Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis-shunting-profile [name] *named-item*

Synopsis	Enter the **multi-chassis-shunting-profile** list instance
Context	**configure** router *named-item-64* ipsec multi-chassis-shunting-profile *named-item*
Tree	multi-chassis-shunting-profile
Max. instances	64
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Multi-chassis shunting profile name
Context	**configure** router *named-item-64* ipsec multi-chassis-shunting-profile *named-item*
Tree	multi-chassis-shunting-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* ipsec multi-chassis-shunting-profile *named-item* peer *reference*
Tree	peer
Max. instances	3
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-address**] *reference*

Synopsis	Peer address
Context	**configure** router *named-item-64* ipsec multi-chassis-shunting-profile *named-item* peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone* | *ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis-shunt-interface *reference*

Synopsis	Multi-chassis shunt interface
Context	**configure** router *named-item-64* ipsec multi-chassis-shunting-profile *named-item* peer *reference* multi-chassis-shunt-interface *reference*
Tree	multi-chassis-shunt-interface
Description	This command configures the shunting interface name for the peer.
Reference	**configure** router *named-item-64* ipsec multi-chassis-shunt-interface *interface-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

security-policy [id] *number*

Synopsis	Enter the **security-policy** list instance
Context	**configure** router *named-item-64* ipsec security-policy *number*
Tree	security-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	IPsec security policy ID
Context	**configure** router *named-item-64* ipsec security-policy *number*
Tree	security-policy

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Range	1 to 32768
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IPsec security policy entry ID
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number*
Tree	entry
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-ip

Synopsis	Enter the **local-ip** context
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* local-ip
Tree	local-ip
Description	Commands in this context configure the local (from the VPN) IPv4 prefix/mask for the policy entry. The system evaluates the local IP as the source IP when traffic is examined in the direction of the flows from private to public and as the destination IP when traffic flows from public to private.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv4-prefix*

Synopsis	Destination IPv4 address of the aggregate route
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* local-ip address *ipv4-prefix*
Tree	address
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* local-ip any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-ipv6

Synopsis	Enter the **local-ipv6** context
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* local-ipv6
Tree	local-ipv6
Description	Commands in this context configure the local (from the VPN) IPv6 prefix/mask for the policy entry. The system evaluates the local IP as the source IP when traffic is examined in the direction of the flows from private to public and as the destination IP when traffic flows from public to private.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv6-prefix*

Synopsis	Destination IPv6 address of the aggregate route
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* local-ipv6 address *ipv6-prefix*
Tree	address
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* local-ipv6 any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-ip

Synopsis	Enter the **remote-ip** context
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* remote-ip
Tree	remote-ip
Description	Commands in this context configure the remote (from the tunnel) IP prefix/mask for the policy entry. The system evaluates the remote IP as the source IP when traffic flows public to private and as the destination IP when traffic flows from private to public.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-prefix*

Synopsis	Destination IPv4 address of the aggregate route

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Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* remote-ip address *ipv4-prefix*
Tree	address
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* remote-ip any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-ipv6

Synopsis	Enter the **remote-ipv6** context
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* remote-ipv6
Tree	remote-ipv6
Description	Commands in this context configure the remote (from the tunnel) IPv6 prefix/mask for the policy entry. The system evaluates the remote IP as the source IP when traffic flows from public to private and as the destination IP when traffic flows from private to public.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-prefix*

Synopsis	Destination IPv6 address of the aggregate route
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* remote-ipv6 address *ipv6-prefix*
Tree	address

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Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** router *named-item-64* ipsec security-policy *number* entry *number* remote-ipv6 any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** router *named-item-64* ipv6 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

reachable-time *number*

Synopsis	Neighbor reachability detection timer
Context	**configure** router *named-item-64* ipv6 neighbor-discovery reachable-time *number*

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Tree	reachable-time
Range	30 to 3600
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-time *number*

Synopsis	Neighbor discovery cache entry stale time
Context	**configure** router *named-item-64* ipv6 neighbor-discovery stale-time *number*
Tree	stale-time
Range	60 to 65535
Default	14400
Introduced	25.3.R2
Platforms	SAR Gen 2

router-advertisement

Synopsis	Enter the **router-advertisement** context
Context	**configure** router *named-item-64* ipv6 router-advertisement
Tree	router-advertisement
Introduced	25.3.R2
Platforms	SAR Gen 2

dns-options

Synopsis	Enable the **dns-options** context
Context	**configure** router *named-item-64* ipv6 router-advertisement dns-options
Tree	dns-options
Introduced	25.3.R2
Platforms	SAR Gen 2

rdnss-lifetime *(keyword | number)*

Synopsis	Maximum time over which the RDNSS address is valid

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Context	**configure** router *named-item-64* ipv6 router-advertisement dns-options rdnss-lifetime *(keyword | number)*
Tree	rdnss-lifetime
Description	This command specifies the maximum time that the RDNSS address is used for name resolution by the client.
Range	0 | 4 to 3600
Units	seconds
Options	infinite
Default	infinite
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv6-address*

Synopsis	RAs that are forwarded to IPv6 DNS servers
Context	**configure** router *named-item-64* ipv6 router-advertisement dns-options server *ipv6-address*
Tree	server
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-int-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-int-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name*

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Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of router advertisement
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

current-hop-limit *number*

Synopsis	Hop limit advertised in RA messages
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* current-hop-limit *number*
Tree	current-hop-limit
Range	0 to 255
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

dns-options

Synopsis	Enable the **dns-options** context
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* dns-options
Tree	dns-options
Introduced	25.3.R2

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Platforms	SAR Gen 2

include-rdnss *boolean*

Synopsis	Include the RDNSS option in the RA
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* dns-options include-rdnss *boolean*
Tree	include-rdnss
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rdnss-lifetime *(number | keyword)*

Synopsis	Maximum time over which the RDNSS address 25 is valid
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* dns-options rdnss-lifetime *(number | keyword)*
Tree	rdnss-lifetime
Range	0 | 4 to 3600
Units	seconds
Options	infinite
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv6-address*

Synopsis	RAs that are forwarded to IPv6 DNS servers
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* dns-options server *ipv6-address*
Tree	server
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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managed-configuration *boolean*

Synopsis	Set the managed address configuration flag
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* managed-configuration *boolean*
Tree	managed-configuration
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-advertisement-interval *number*

Synopsis	Maximum time between sending advertisement messages
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* max-advertisement-interval *number*
Tree	max-advertisement-interval
Range	4 to 1800
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

min-advertisement-interval *number*

Synopsis	Minimum interval between router advertisement messages
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* min-advertisement-interval *number*
Tree	min-advertisement-interval
Range	3 to 1350
Units	seconds
Default	200
Introduced	25.3.R2
Platforms	SAR Gen 2

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mtu *number*

Synopsis	MTU for sending packets to the router
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* mtu *number*
Tree	mtu
Range	1280 to 9800
Introduced	25.3.R2
Platforms	SAR Gen 2

nd-router-preference *keyword*

Synopsis	Default router preference for Router Advertisements
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* nd-router-preference *keyword*
Tree	nd-router-preference
Description	This command configures the default router preference for Router Advertisements (RAs) and allows IPv6 hosts to discover and select a default gateway address by listening to RAs. This feature provides basic traffic engineering functionality for host devices. When this command is applied, the router advertises the respective router preference to the connected host to assist in its selection of the most appropriate default gateway on a link. This extension is backward compatible, both for routers (setting the router preference bits) and hosts (interpreting the router preference bits). These bits are ignored by hosts that do not implement the RFC 4191 functionality by configuring this command. Similarly, hosts that do not implement the RFC 4191 functionality interpret the values sent by devices that do not implement the RFC 4191 extension as a medium preference.
Options	medium, high, low
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

other-stateful-configuration *boolean*

Synopsis	Set the other configuration flag
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* other-stateful-configuration *boolean*

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Tree	other-stateful-configuration
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Enter the **prefix** list instance
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* prefix *ipv6-prefix*
Tree	prefix
Max. instances	254
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 address prefix
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

autonomous *boolean*

Synopsis	Set the autonomous flag value
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* prefix *ipv6-prefix* autonomous *boolean*
Tree	autonomous
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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on-link *boolean*

Synopsis	Use prefix for on-link determination
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* prefix *ipv6-prefix* on-link *boolean*
Tree	on-link
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

preferred-lifetime *(keyword | number)*

Synopsis	Remaining time that the prefix remains preferred
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* prefix *ipv6-prefix* preferred-lifetime *(keyword | number)*
Tree	preferred-lifetime
Range	0 to 4294967294
Units	seconds
Options	infinite
Default	604800
Introduced	25.3.R2
Platforms	SAR Gen 2

valid-lifetime *(keyword | number)*

Synopsis	Remaining time in which the prefix is still valid
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* prefix *ipv6-prefix* valid-lifetime *(keyword | number)*
Tree	valid-lifetime
Range	0 to 4294967294
Units	seconds
Options	infinite
Default	2592000
Introduced	25.3.R2
Platforms	SAR Gen 2

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reachable-time *number*

Synopsis	Time the router is reachable by other hosts or nodes
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* reachable-time *number*
Tree	reachable-time
Range	0 to 3600000
Units	milliseconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-time *number*

Synopsis	Time to advertise neighbor advertisement messages
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* retransmit-time *number*
Tree	retransmit-time
Range	0 to 1800000
Units	milliseconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

router-lifetime *number*

Synopsis	Lifetime value in neighbor advertisement messages
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* router-lifetime *number*
Tree	router-lifetime
Range	0 | 4 to 9000
Units	seconds
Default	1800
Introduced	25.3.R2
Platforms	SAR Gen 2

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use-virtual-mac *boolean*

Synopsis	Use VRRP virtual MAC address for advertisement message
Context	**configure** router *named-item-64* ipv6 router-advertisement interface *interface-name* use-virtual-mac *boolean*
Tree	use-virtual-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-te-router-id

Synopsis	Enter the **ipv6-te-router-id** context
Context	**configure** router *named-item-64* ipv6-te-router-id
Tree	ipv6-te-router-id
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *reference*

Synopsis	Network IP interface name to obtain IP address
Context	**configure** router *named-item-64* ipv6-te-router-id interface *reference*
Tree	interface
Description	This command specifies the interface name from which to obtain the IP address to use as the IPv6 TE Router ID. This router ID uniquely identifies the router to other routers as IPv6 TE capable in an IGP TE domain. IS-IS advertises this information using the IPv6 TE Router ID TLV.
Reference	**configure** router *named-item-64* interface *interface-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

isis [isis-instance] *number*

Synopsis	Enter the **isis** list instance
Context	**configure** router *named-item-64* isis *number*
Tree	isis

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**isis-instance**] *number*

Synopsis	IS-IS instance ID
Context	**configure** router *named-item-64* isis *number*
Tree	isis
Range	0 to 127
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

additional-system-id *system-id-no-default*

Synopsis	Additional system ID
Context	**configure** router *named-item-64* isis *number* additional-system-id *system-id-no-default*
Tree	additional-system-id
String length	14
String format	'system-id-no-default' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Max. instances	4
Notes	This element is ordered by the user.
Introduced	26.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IS-IS instance
Context	**configure** router *named-item-64* isis *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-passive-only *boolean*

Synopsis	Advertise prefixes that belong to passive interfaces
Context	**configure** router *named-item-64* isis *number* advertise-passive-only *boolean*
Tree	advertise-passive-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *keyword*

Synopsis	Router capabilities advertisement to neighbors
Context	**configure** router *named-item-64* isis *number* advertise-router-capability *keyword*
Tree	advertise-router-capability
Options	area, as
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-tunnel-link *boolean*

Synopsis	Allow use of forwarding adjacency
Context	**configure** router *named-item-64* isis *number* advertise-tunnel-link *boolean*
Tree	advertise-tunnel-link
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

all-l1isis *mac-address*

Synopsis	Destination MAC address for all L1 IS-IS routers
Context	**configure** router *named-item-64* isis *number* all-l1isis *mac-address*
Tree	all-l1isis

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Default	01:80:C2:00:00:14
Introduced	25.3.R2
Platforms	SAR Gen 2

all-l2isis *mac-address*

Synopsis	Destination MAC address for all L2 IS-IS routers
Context	**configure** router *named-item-64* isis *number* all-l2isis *mac-address*
Tree	all-l2isis
Default	01:80:C2:00:00:15
Introduced	25.3.R2
Platforms	SAR Gen 2

area-address *area-address*

Synopsis	Area address portion of the NSAP address
Context	**configure** router *named-item-64* isis *number* area-address *area-address*
Tree	area-address
String length	2 to 38
String format	'area-address' must match NSAP area-address hex pattern (length 2..38)
Max. instances	3
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-check *boolean*

Synopsis	Perform authentication check to reject mismatch PDUs
Context	**configure** router *named-item-64* isis *number* authentication-check *boolean*
Tree	authentication-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-key *encrypted-leaf*

Synopsis	Authentication key to verify PDUs sent from neighbors
Context	**configure** router *named-item-64* isis *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key to verify PDUs sent from neighbors in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to sign and authenticate
Context	**configure** router *named-item-64* isis *number* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type
Context	**configure** router *named-item-64* isis *number* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

csnp-authentication *boolean*

Synopsis	Authenticate individual IS-IS packets of the CSNP type
Context	**configure** router *named-item-64* isis *number* csnp-authentication *boolean*

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Tree	csnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

csnp-on-p2p *boolean*

Synopsis	Send periodic CSNP PDUs on point-to-point interfaces
Context	**configure** router *named-item-64* isis *number* csnp-on-p2p *boolean*
Tree	csnp-on-p2p
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

database-export

Synopsis	Enable the **database-export** context
Context	**configure** router *named-item-64* isis *number* database-export
Tree	database-export
Description	Commands in this context enable the population of the extended TE Database (TE-DB) with the link-state information from a specific IGP instance. This information includes the IGP, TE, and SR information, prefix SID sub-TLV, adjacency SID sub-TLV, and router SR capability TLV.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ls-identifier

Synopsis	Enable the **bgp-ls-identifier** context
Context	**configure** router *named-item-64* isis *number* database-export bgp-ls-identifier
Tree	bgp-ls-identifier
Description	Commands in this context correlate, along with the Autonomous System Number (ASN), the BGP-LS NLRI advertisements of multiple BGP-LS speakers of the same IGP domain.
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *number*

Synopsis	BGP-LS ID sent in the BGP-LS NLRI
Context	**configure** router *named-item-64* isis *number* database-export bgp-ls-identifier value *number*
Tree	value
Description	This command configures the BGP-LS ID to export. If an NRC-P network domain has multiple IGP domains, a user must configure BGP-LS speakers within each IGP domain with the same unique ASN, BGP-LS ID tuple. The BGP-LS identifier is optional and is only sent in a BGP-LS NLRI if configured in the IGP instance of an IGP domain. **Note:** If this IGP instance participates in traffic engineering with RSVP-TE or SR-TE, the **traffic-engineering** command configuration is not strictly required because enabling the extended TE-DB populates this information automatically. However, Nokia recommends enabling the **traffic-engineering** command to make the configuration consistent with other routers in the network that do not require the enabling of the extended TE-DB.
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-identifier *number*

Synopsis	IGP instance ID in the BGP-LS NLRI
Context	**configure** router *named-item-64* isis *number* database-export igp-identifier *number*
Tree	igp-identifier
Description	This command configures the unique identifier for the IGP instance in the BGP-LS NLRI when a router has interfaces participating in multiple IGP instances. The concept of instance ID defined in IS-IS (RFC 6822) is unique within a routing domain. A user can remove any overlap by configuring the new identifier value to be unique within an IGP domain when this router sends the IGP link-state information using BGP-LS.
Max. range	0 to 18446744073709551615
Introduced	25.3.R2
Platforms	SAR Gen 2

reachable-ls-only *boolean*

Synopsis	Encode only reachable link-state information

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Context	**configure** router *named-item-64* isis *number* database-export reachable-ls-only *boolean*
Tree	reachable-ls-only
Description	When configured to **true**, the router, acting as a BGP-LS producer, must withdraw all link-state objects it has advertised in BGP, in accordance with section 5.9 of RFC 9552. This withdrawal occurs when the node that originated the corresponding LSPs is determined to be unreachable in the IGP based on the failure of a reachability check for that node. This withdrawal operation assists network controllers in assessing a reachable IGP topology, even in networks with segmented areas. For backward compatibility, the default behavior remains unchanged. When configure to **false**, the router continues to send link-state objects even for links that fail an IGP reachability check.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

default-route-tag *number*

Synopsis	Route tag for the default route
Context	**configure** router *named-item-64* isis *number* default-route-tag *number*
Tree	default-route-tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enter the **entropy-label** context
Context	**configure** router *named-item-64* isis *number* entropy-label
Tree	entropy-label
Introduced	25.3.R2
Platforms	SAR Gen 2

override-tunnel-elc *boolean*

Synopsis	Enable override of received ELC advertisements
Context	**configure** router *named-item-64* isis *number* entropy-label override-tunnel-elc *boolean*
Tree	override-tunnel-elc

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** router *named-item-64* isis *number* export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** router *named-item-64* isis *number* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** router *named-item-64* isis *number* export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies that determine exported routes
Context	**configure** router *named-item-64* isis *number* export-policy *reference*

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Tree	export-policy
Description	This command configures export routing policies for the routes exported from the routing table to IS-IS. If the export policy is undefined, the system does not export non IS-IS routes from the routing table manager to IS-IS. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied. If the **aggregate** command is also configured in the **configure router** context, the aggregation is applied before the export policy is applied. Routing policies are created in the **configure router policy-options** context.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

flexible-algorithms

Synopsis	Enter the **flexible-algorithms** context
Context	**configure** router *named-item-64* isis *number* flexible-algorithms
Tree	flexible-algorithms
Description	Commands in this context configure IS-IS parameters for flexible algorithm participation.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of flexible algorithm support
Context	**configure** router *named-item-64* isis *number* flexible-algorithms admin-state *keyword*
Tree	admin-state
Description	This command specifies the administrative state of the support of flexible algorithm IGP LSDB extensions.
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

advertise-admin-group *keyword*

Synopsis	Administrative group TLV to advertise
Context	**configure** router *named-item-64* isis *number* flexible-algorithms advertise-admin-group *keyword*
Tree	advertise-admin-group
Description	This command configures the type of Administrative Group TLV the router advertises as an IGP link attribute. This command is configured for this IGP instance.
Options	prefer-ag, eag-only, ag-eag
Default	prefer-ag
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo [flex-algo-id] *number*

Synopsis	Enter the **flex-algo** list instance
Context	**configure** router *named-item-64* isis *number* flexible-algorithms flex-algo *number*
Tree	flex-algo
Description	Commands in this context configure an IS-IS flexible algorithm. When flexible algorithm is configured in an IS-IS instance, the IS-IS instance is configured for all levels (Level 1 and Level 2).
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

[**flex-algo-id**] *number*

Synopsis	Flexible algorithm ID
Context	**configure** router *named-item-64* isis *number* flexible-algorithms flex-algo *number*
Tree	flex-algo
Range	128 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

advertise *reference*

Synopsis	Flexible Algorithm Definition advertisement
Context	**configure** router *named-item-64* isis *number* flexible-algorithms flex-algo *number* advertise *reference*
Tree	advertise
Description	This command enables the advertisement of a locally configured Flexible Algorithm Definition (FAD). The winning FAD that a router uses must be consistent with the winning FAD on all other routers, which avoids routing loops and traffic blackholing. The winning FAD is selected using a tiebreaker algorithm that first selects the highest advertised FAD priority followed by the highest system ID.
Reference	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** router *named-item-64* isis *number* flexible-algorithms flex-algo *number* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

micro-loop-avoidance

Synopsis	Enable the **micro-loop-avoidance** context
Context	**configure** router *named-item-64* isis *number* flexible-algorithms flex-algo *number* micro-loop-avoidance
Tree	micro-loop-avoidance
Description	This command configure flexible-algorithms-aware microloop avoidance. When enabled, the microloop configuration parameters are inherited from the base SPF. This command enables microloop avoidance with flexible algorithms for MT0. Microloop avoidance with flexible algorithms for MT2 is enabled when this command is enabled

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along with SR-MPLS MT2 using the **configure router isis segment-routing multi-topology mt2** command.

Introduced 25.3.R2

Platforms SAR Gen 2

participate *boolean*

Synopsis Allow participation in the Flexible Algorithm

Context **configure** router *named-item-64* isis *number* flexible-algorithms flex-algo *number* participate *boolean*

Tree participate

Description When configured to **true**, the router advertises the capability to participate in a flexible algorithm within the IS-IS Router Capability TLV. A router only advertises participation when the winning FAD can be supported, which includes segment routing support.

When configured to **false**, flexible algorithm participation is not enabled.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

graceful-restart

Synopsis Enable the **graceful-restart** context

Context **configure** router *named-item-64* isis *number* graceful-restart

Tree graceful-restart

Introduced 25.3.R2

Platforms SAR Gen 2

helper-mode *boolean*

Synopsis Enable the Graceful Restart helper for IS-IS

Context **configure** router *named-item-64* isis *number* graceful-restart helper-mode *boolean*

Tree helper-mode

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

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hello-authentication *boolean*

Synopsis	Authenticate Hello type IS-IS protocol packets
Context	**configure** router *named-item-64* isis *number* hello-authentication *boolean*
Tree	hello-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	IS-IS Hello message padding
Context	**configure** router *named-item-64* isis *number* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-attached-bit *boolean*

Synopsis	Ignore attached bit on received Layer 1 LSPs
Context	**configure** router *named-item-64* isis *number* ignore-attached-bit *boolean*
Tree	ignore-attached-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-lsp-errors *boolean*

Synopsis	Ignore LSP packets with errors
Context	**configure** router *named-item-64* isis *number* ignore-lsp-errors *boolean*
Tree	ignore-lsp-errors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-narrow-metric *boolean*

Synopsis	Ignore links with narrow metrics
Context	**configure** router *named-item-64* isis *number* ignore-narrow-metric *boolean*
Tree	ignore-narrow-metric
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-shortcut

Synopsis	Enter the **igp-shortcut** context
Context	**configure** router *named-item-64* isis *number* igp-shortcut
Tree	igp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of RSVP-TE or SR-TE shortcut
Context	**configure** router *named-item-64* isis *number* igp-shortcut admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-sr-over-srte *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable SR over SR-TE LSPs
Context	**configure** router *named-item-64* isis *number* igp-shortcut allow-sr-over-srte *boolean*
Tree	allow-sr-over-srte

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Description	When configured to **true**, the router only allows SR-MPLS SRv4 and SRv6 IGP shortcuts to use SR-TE LSPs with **allow-sr-over-srte** explicitly enabled with an adjacency SID as top SID in the SR-TE LSP. IPv4 and IPv6 addresses can use all available SR-TE LSPs as IGP shortcuts regardless of the explicit **allow-sr-over-srte** configuration. Under ECMP, when this command is configured to **true**, preference is given to the SR-TE LSPs with **allow-sr-over-srte** explicitly configured over the LSPs that do not have **allow-sr-over-srte** configured.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-next-hop

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **tunnel-next-hop** context
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop
Tree	tunnel-next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for tunnel next hop
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop family *keyword*

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Tree	family
Options	ipv4, ipv6, srv4, srv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Resolution mode for IGP shortcut tunnels
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop family *keyword* resolution *keyword*
Tree	resolution
Options	none, filter, any, match-family-ip
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter rsvp *boolean*
Tree	rsvp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-te *boolean*

Synopsis	Use SR-TE tunneling for next-hop resolution
Context	**configure** router *named-item-64* isis *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter sr-te *boolean*
Tree	sr-te
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

iid-tlv *boolean*

Synopsis	Use IID TLVs with IS-IS multi-instance
Context	**configure** router *named-item-64* isis *number* iid-tlv *boolean*
Tree	iid-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy names for routes from IGP to route table
Context	**configure** router *named-item-64* isis *number* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* isis *number* interface *interface-name*

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Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* isis *number* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-set [id] *reference*

Synopsis	Add a list entry for **adjacency-set**
Context	**configure** router *named-item-64* isis *number* interface *interface-name* adjacency-set *reference*
Tree	adjacency-set
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	Adjacency set ID
Context	**configure** router *named-item-64* isis *number* interface *interface-name* adjacency-set *reference*
Tree	adjacency-set
Reference	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the IS-IS interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enter the **bfd-liveness** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* bfd-liveness
Tree	bfd-liveness
Description	Commands in this context enable the use of bidirectional forwarding (BFD) to control IPv4 and IPv6 adjacencies. Enabling BFD on an IPv4 or IPv6 protocol interface ties the protocol interface state to the BFD session state between the local and remote nodes. BFD must be enabled on the applicable IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enable the **ipv4** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* bfd-liveness ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

include-bfd-tlv *boolean*

Synopsis	Enable IS-IS BFD TLVs on the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* bfd-liveness ipv4 include-bfd-tlv *boolean*

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Tree	include-bfd-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enable the **ipv6** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* bfd-liveness ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

include-bfd-tlv *boolean*

Synopsis	Enable IS-IS BFD TLVs on the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* bfd-liveness ipv6 include-bfd-tlv *boolean*
Tree	include-bfd-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-advertise-prefix *reference*

Synopsis	Policy to conditionally advertise interface prefixes
Context	**configure** router *named-item-64* isis *number* interface *interface-name* conditional-advertise-prefix *reference*
Tree	conditional-advertise-prefix
Description	This command specifies the policy that allows IS-IS, OSPF, and OSPFv3 to selectively advertise system or loopback interface prefixes (including associated SIDs and SRv6 locators) only when conditions defined in the route policy are met. The route policy evaluates the presence or absence of specific routes in the routing table, typically using constructs like route-exists. If the policy evaluates to accept, the interface prefix is advertised; if not, the prefix is suppressed.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.10.R1

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Platforms	SAR Gen 2

csnp-interval *number*

Synopsis	Time interval between successive CSN PDUs sent
Context	**configure** router *named-item-64* isis *number* interface *interface-name* csnp-interval *number*
Tree	csnp-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

default-instance *boolean*

Synopsis	Allow non-MI capable router to establish an adjacency
Context	**configure** router *named-item-64* isis *number* interface *interface-name* default-instance *boolean*
Tree	default-instance
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-normalization

Synopsis	Enable the **delay-normalization** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* delay-normalization
Tree	delay-normalization
Description	Commands in this context configure delay normalization for the interface within the IGP instance. When configured, the normalized delay is used by the TLVs within the IGP link-state packets. When unconfigured, the measured delay is used by the respective TLVs within the IGP link-state packets.
Introduced	25.3.R2
Platforms	SAR Gen 2

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delay-tolerance-interval *number*

Synopsis	Interval between two delay values on the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* delay-normalization delay-tolerance-interval *number*
Tree	delay-tolerance-interval
Description	This command defines the interval used by the IGP to differentiate between two delay values.
Range	1 to 10000000
Units	microseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-delay *number*

Synopsis	Minimum delay on the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* delay-normalization minimum-delay *number*
Tree	minimum-delay
Range	1 to 10000000
Units	microseconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo [flex-algo-id] *number*

Synopsis	Enter the **flex-algo** list instance
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number*
Tree	flex-algo
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**flex-algo-id**] *number*

Synopsis	Flexible algorithm ID
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number*
Tree	flex-algo
Range	128 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-node-sid

Synopsis	Enable the **ipv4-node-sid** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number* ipv4-node-sid
Tree	ipv4-node-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for this interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number* ipv4-node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number* ipv4-node-sid label *number*
Tree	label

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Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-node-sid

Synopsis	Enable the **ipv6-node-sid** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number* ipv6-node-sid
Tree	ipv6-node-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for this interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number* ipv6-node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* isis *number* interface *interface-name* flex-algo *number* ipv6-node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-authentication *boolean*

Synopsis	Authenticate Hello type IS-IS protocol packets
Context	**configure** router *named-item-64* isis *number* interface *interface-name* hello-authentication *boolean*
Tree	hello-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-key *encrypted-leaf*

Synopsis	Authentication key or hash string for Hello PDUs
Context	**configure** router *named-item-64* isis *number* interface *interface-name* hello-authentication-key *encrypted-leaf*
Tree	hello-authentication-key
Description	This command specifies the authentication key or hash string for Hello PDUs in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-keychain *reference*

Synopsis	Authentication keychain to use for the session
Context	**configure** router *named-item-64* isis *number* interface *interface-name* hello-authentication-keychain *reference*
Tree	hello-authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-authentication-type *keyword*

Synopsis	Hello authentication type
Context	**configure** router *named-item-64* isis *number* interface *interface-name* hello-authentication-type *keyword*
Tree	hello-authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	Padding on IS-IS Hello packets
Context	**configure** router *named-item-64* isis *number* interface *interface-name* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-type *keyword*

Synopsis	Interface type to broadcast, point-to-point, or to be default
Context	**configure** router *named-item-64* isis *number* interface *interface-name* interface-type *keyword*
Tree	interface-type
Options	point-to-point, broadcast
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-adjacency-sid

Synopsis	Enable the **ipv4-adjacency-sid** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-adjacency-sid
Tree	ipv4-adjacency-sid

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Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Adjacency SID label
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-adjacency-sid label *number*
Tree	label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast *boolean*

Synopsis	Enable IPv4 multicast routing for the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-multicast *boolean*
Tree	ipv4-multicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-node-sid

Synopsis	Enable the **ipv4-node-sid** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-node-sid
Tree	ipv4-node-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-n-flag *boolean*

Synopsis	Clear the node-sid flag (N-flag)
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-node-sid clear-n-flag *boolean*

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Tree	clear-n-flag
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for this interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv4-node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-adjacency-sid

Synopsis	Enable the **ipv6-adjacency-sid** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-adjacency-sid
Tree	ipv6-adjacency-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

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label *number*

Synopsis	Adjacency SID label
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-adjacency-sid label *number*
Tree	label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-multicast *boolean*

Synopsis	Enable IPv6 multicast routing for the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-multicast *boolean*
Tree	ipv6-multicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-node-sid

Synopsis	Enable the **ipv6-node-sid** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-node-sid
Tree	ipv6-node-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-n-flag *boolean*

Synopsis	Clear the node-sid flag (N-flag)
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-node-sid clear-n-flag *boolean*
Tree	clear-n-flag
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for this interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast *boolean*

Synopsis	Enable IPv6 unicast routing for the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* ipv6-unicast *boolean*
Tree	ipv6-unicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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level [level-number] *keyword*

Synopsis	Enter the **level** list instance
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword*
Tree	level
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-number**] *keyword*

Synopsis	ISIS protocol level number
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword*
Tree	level
Options	1, 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-key *encrypted-leaf*

Synopsis	Authentication key for Hello PDUs
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* hello-authentication-key *encrypted-leaf*
Tree	hello-authentication-key
Description	This command configures the authentication key (password) for Hello PDUs. Both the Hello authentication key and the Hello authentication type on a segment must match. If both IS-IS and Hello authentication are configured, Hello messages are validated using Hello authentication. If only IS-IS authentication is configured, it is used to authenticate all IS-IS (including Hello) protocol PDUs. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-authentication-keychain *reference*

Synopsis	Authentication keychain to use for the session
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* hello-authentication-keychain *reference*
Tree	hello-authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-type *keyword*

Synopsis	Hello authentication enabled on the context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* hello-authentication-type *keyword*
Tree	hello-authentication-type
Description	This command enables Hello authentication at the level context. Both the Hello authentication key and the Hello authentication type on a segment must match. The Hello **authentication-key** statement must also be included.
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Interval between Hello messages sent on this level
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* hello-interval *number*
Tree	hello-interval
Range	1 to 20000
Units	seconds
Default	9
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-multiplier *number*

Synopsis	Hello messages missed from neighbor before router declares adjacency down
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* hello-multiplier *number*
Tree	hello-multiplier
Range	2 to 100
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	Padding on IS-IS Hello packets
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast-metric *number*

Synopsis	IS-IS interface metric applied for IPv4 multicast
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* ipv4-multicast-metric *number*
Tree	ipv4-multicast-metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-multicast-metric *number*

Synopsis	IS-IS interface metric applied for IPv6 multicast
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* ipv6-multicast-metric *number*

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Tree	ipv6-multicast-metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast-metric *number*

Synopsis	IS-IS interface metric applied for IPv6 unicast
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* ipv6-unicast-metric *number*
Tree	ipv6-unicast-metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	IS-IS interface metric applied for IPv4 unicast
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* metric *number*
Tree	metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Passive interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* passive *boolean*
Tree	passive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority *number*

Synopsis	Router to become the designated router on a multi-access network
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* priority *number*
Tree	priority
Range	0 to 127
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

sd-offset *number*

Synopsis	Value of the signal degrade offset
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* sd-offset *number*
Tree	sd-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

sf-offset *number*

Synopsis	Value of the signal fail offset
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level *keyword* sf-offset *number*
Tree	sf-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

level-capability *keyword*

Synopsis	IS-IS levels for this interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* level-capability *keyword*

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Tree	level-capability
Options	1, 2, 1/2
Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load balancing weight
Context	**configure** router *named-item-64* isis *number* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enter the **loopfree-alternate** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Exclude Loopfree Alternative at the interface level
Context	**configure** router *named-item-64* isis *number* interface *interface-name* loopfree-alternate exclude *boolean*
Tree	exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-map

Synopsis	Enable the **policy-map** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* loopfree-alternate policy-map
Tree	policy-map
Introduced	25.3.R2
Platforms	SAR Gen 2

route-nh-template *reference*

Synopsis	Route next hop policy template name
Context	**configure** router *named-item-64* isis *number* interface *interface-name* loopfree-alternate policy-map route-nh-template *reference*
Tree	route-nh-template
Reference	**configure** routing-options route-next-hop-policy template *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-pacing-interval *number*

Synopsis	Interval for sending LSPs from interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* lsp-pacing-interval *number*
Tree	lsp-pacing-interval
Range	0 to 65535
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

mesh-group

Synopsis	Enable the **mesh-group** context
Context	**configure** router *named-item-64* isis *number* interface *interface-name* mesh-group

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Tree	mesh-group
Introduced	25.3.R2
Platforms	SAR Gen 2

blocked

Synopsis	Prevent the interface from flooding LSPs
Context	**configure** router *named-item-64* isis *number* interface *interface-name* mesh-group blocked
Tree	blocked
Notes	The following elements are part of a choice: **blocked** or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Mesh group for the interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* mesh-group value *number*
Tree	value
Range	1 to 2000000000
Notes	The following elements are part of a choice: **blocked** or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Passive interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* passive *boolean*
Tree	passive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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retransmit-interval *number*

Synopsis	Minimum time between LSP PDU retransmissions on point-to-point interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 65535
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

sid-protection *boolean*

Synopsis	Allow adjacency SID protection by LFA and remote LFA
Context	**configure** router *named-item-64* isis *number* interface *interface-name* sid-protection *boolean*
Tree	sid-protection
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Route tag for IP address of interface
Context	**configure** router *named-item-64* isis *number* interface *interface-name* tag *number*
Tree	tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast-routing *keyword*

Synopsis	IS-IS topology for IPv4 multicast routing
Context	**configure** router *named-item-64* isis *number* ipv4-multicast-routing *keyword*

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Tree	ipv4-multicast-routing
Options	false, native, mt
Default	native
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-routing *boolean*

Synopsis	Support IPv4 routing for IS-IS instance
Context	**configure** router *named-item-64* isis *number* ipv4-routing *boolean*
Tree	ipv4-routing
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-multicast-routing *keyword*

Synopsis	Topology to populate the IPv6 multicast RTM
Context	**configure** router *named-item-64* isis *number* ipv6-multicast-routing *keyword*
Tree	ipv6-multicast-routing
Options	false, native, mt
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-routing *keyword*

Synopsis	Routing topology for IPv6
Context	**configure** router *named-item-64* isis *number* ipv6-routing *keyword*
Tree	ipv6-routing
Options	false, native, mt
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ldp-over-rsvp *boolean*

Synopsis	Allow LDP over RSVP processing
Context	**configure** router *named-item-64* isis *number* ldp-over-rsvp *boolean*
Tree	ldp-over-rsvp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-sync *boolean*

Synopsis	Use IGP-LDP synchronization feature on all interfaces participating in IS-IS routing protocol
Context	**configure** router *named-item-64* isis *number* ldp-sync *boolean*
Tree	ldp-sync
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

level [level-number] *keyword*

Synopsis	Enter the **level** list instance
Context	**configure** router *named-item-64* isis *number* level *keyword*
Tree	level
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-number**] *keyword*

Synopsis	ISIS protocol level number
Context	**configure** router *named-item-64* isis *number* level *keyword*
Tree	level
Options	1, 2

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* isis *number* level *keyword* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key to verify PDUs sent on the interface
Context	**configure** router *named-item-64* isis *number* level *keyword* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication key used to verify PDUs sent by neighboring routers on the interface. Neighboring routers use passwords to authenticate PDUs sent from an interface. For authentication to work, both the authentication key and the authentication type on a segment must match. The **authentication-type** command must also be included. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to sign and authenticate
Context	**configure** router *named-item-64* isis *number* level *keyword* authentication-keychain *reference*

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Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type to be used
Context	**configure** router *named-item-64* isis *number* level *keyword* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

csnp-authentication *boolean*

Synopsis	Enable authentication of CSNP IS-IS protocol packets
Context	**configure** router *named-item-64* isis *number* level *keyword* csnp-authentication *boolean*
Tree	csnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

database-export-exclude *boolean*

Synopsis	Exclude IGP link-state information of a specific IS-IS level from being exported into extended TE-DB
Context	**configure** router *named-item-64* isis *number* level *keyword* database-export-exclude *boolean*
Tree	database-export-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-ipv4-multicast-metric *number*

Synopsis	Default metric for IPv4 unicast
Context	**configure** router *named-item-64* isis *number* level *keyword* default-ipv4-multicast-metric *number*
Tree	default-ipv4-multicast-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

default-ipv6-multicast-metric *number*

Synopsis	Default metric for IPv6 unicast
Context	**configure** router *named-item-64* isis *number* level *keyword* default-ipv6-multicast-metric *number*
Tree	default-ipv6-multicast-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

default-ipv6-unicast-metric *number*

Synopsis	Default metric for IPv6 unicast
Context	**configure** router *named-item-64* isis *number* level *keyword* default-ipv6-unicast-metric *number*
Tree	default-ipv6-unicast-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

default-metric *number*

Synopsis	Default metric

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Context	**configure** router *named-item-64* isis *number* level *keyword* default-metric *number*
Tree	default-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

external-preference *number*

Synopsis	External route preference for IS-IS level
Context	**configure** router *named-item-64* isis *number* level *keyword* external-preference *number*
Tree	external-preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication *boolean*

Synopsis	Authenticate Hello type IS-IS protocol packets
Context	**configure** router *named-item-64* isis *number* level *keyword* hello-authentication *boolean*
Tree	hello-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	Padding on IS-IS Hello packets
Context	**configure** router *named-item-64* isis *number* level *keyword* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

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loopfree-alternate-exclude *boolean*

Synopsis	Exclude interface participating in specific IS-IS level in SPF LFA computation
Context	**configure** router *named-item-64* isis *number* level *keyword* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-mtu-size *number*

Synopsis	LSP MTU size
Context	**configure** router *named-item-64* isis *number* level *keyword* lsp-mtu-size *number*
Tree	lsp-mtu-size
Range	490 to 9778
Units	bytes
Default	1492
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	External route preference at level
Context	**configure** router *named-item-64* isis *number* level *keyword* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

psnp-authentication *boolean*

Synopsis	Enable authentication on PSNP IS-IS protocol packets
Context	**configure** router *named-item-64* isis *number* level *keyword* psnp-authentication *boolean*
Tree	psnp-authentication

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

wide-metrics-only *boolean*

Synopsis	Use wide metrics advertisements in the LSPs
Context	**configure** router *named-item-64* isis *number* level *keyword* wide-metrics-only *boolean*
Tree	wide-metrics-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

level-capability *keyword*

Synopsis	Routing level for instance
Context	**configure** router *named-item-64* isis *number* level-capability *keyword*
Tree	level-capability
Options	1, 2, 1/2
Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

link-group [link-group-name] *named-item*

Synopsis	Enter the **link-group** list instance
Context	**configure** router *named-item-64* isis *number* link-group *named-item*
Tree	link-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**link-group-name**] *named-item*

Synopsis	Link group name for the IS-IS protocol
Context	**configure** router *named-item-64* isis *number* link-group *named-item*

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Tree	link-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description
Context	**configure** router *named-item-64* isis *number* link-group *named-item* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

level [level-number] *keyword*

Synopsis	Enter the **level** list instance
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword*
Tree	level
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-number**] *keyword*

Synopsis	ISIS protocol level number
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword*
Tree	level
Options	1, 2
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast-metric-offset *number*

Synopsis	Offset value for the IPv4 multicast address family
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* ipv4-multicast-metric-offset *number*
Tree	ipv4-multicast-metric-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-unicast-metric-offset *number*

Synopsis	Offset value for the IPv4 unicast address family
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* ipv4-unicast-metric-offset *number*
Tree	ipv4-unicast-metric-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-multicast-metric-offset *number*

Synopsis	Offset value for the IPv6 multicast address family
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* ipv6-multicast-metric-offset *number*
Tree	ipv6-multicast-metric-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast-metric-offset *number*

Synopsis	Offset value for the IPv6 unicast address family

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Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* ipv6-unicast-metric-offset *number*
Tree	ipv6-unicast-metric-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

member [interface-name] *reference*

Synopsis	Add a list entry for **member**
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* member *reference*
Tree	member
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Router interface name for this link group
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* member *reference*
Tree	member
Reference	**configure** router *named-item-64* isis *number* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-members *number*

Synopsis	Minimum number of operational links
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* oper-members *number*
Tree	oper-members
Range	1 to 8

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Introduced	25.3.R2
Platforms	SAR Gen 2

revert-members *number*

Synopsis	Minimum number of operational links to return link group to normal state and remove offsets
Context	**configure** router *named-item-64* isis *number* link-group *named-item* level *keyword* revert-members *number*
Tree	revert-members
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** router *named-item-64* isis *number* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

augment-route-table *boolean*

Synopsis	Attach remote LFA information to RTM entries
Context	**configure** router *named-item-64* isis *number* loopfree-alternate augment-route-table *boolean*
Tree	augment-route-table
Description	When configured to **true**, this command enables IS-IS to attach remote LFA-specific information to RTM entries for use by protocols such as LDP. When configured to **false**, rLFA-specific information is not added to RTM entries.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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exclude

Synopsis	Enter the **exclude** context
Context	**configure** router *named-item-64* isis *number* loopfree-alternate exclude
Tree	exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-policy *reference*

Synopsis	Policy to exclude prefixes from LFA SPF calculation
Context	**configure** router *named-item-64* isis *number* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Description	This command specifies the name of the policy for the prefixes to exclude from the LFA SPF calculation. An excluded prefix is not included in LFA calculation regardless of its priority. The prefix tag is, however, used in the main SPF.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-homed-prefix

Synopsis	Enable the **multi-homed-prefix** context
Context	**configure** router *named-item-64* isis *number* loopfree-alternate multi-homed-prefix
Tree	multi-homed-prefix
Description	Commands in this context enable multihomed prefix LFA for IS-IS routes (IP FRR), SR-ISIS tunnels, and SRv6-ISIS tunnels. This feature uses the multihomed prefix model described in RFC 8518 to compute a backup IP next hop using an alternate ABR or ASBR for external prefixes and to an alternate router owner for local anycast prefixes. This feature further enhances the multihomed prefix backup path calculation beyond RFC 8518 with the addition of repair tunnels that make use of a PQ node or a P-Q set to

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reach the alternate exit ABR or ASBR of external prefixes or the alternate owner router of intra-area anycast prefixes.

The computed IP next hop-based backup path is added to IS-IS routes of external /32 prefixes or /128 prefixes and intra-area /32 or /128 anycast prefixes in the RTM if the prefix is not protected by the base LFA or if the user set leaf preference command option is configured to all. The user must enable the **configure routing-options ip-fast-reroute** command to have these backup paths programmed into the FIB in the datapath.

The computed IP next hop or repair tunnel-based backup path is also programmed for:

- SR-ISIS node SID tunnels of external /32 IPv4 prefixes and /128 IPv6 prefixes, and node SID tunnels of intra-area /32 IPv4 anycast prefixes and /128 anycast IPv6 prefixes, in both algorithm 0 and flexible-algorithms
- SRv6-ISIS locator routes and tunnels of external prefixes and of intra-area anycast prefixes of any size, in both algorithm 0 and flexible algorithm numbers.

As a result, an SR-TE LSP, an SR-MPLS policy, or an SRv6 policy which uses an SR-ISIS SID or an SRv6-ISIS SID of those same prefixes in its configured or computed SID list benefits from the multihomed prefix LFA protection.

Once the IP next-hop based multihomed prefix LFA is enabled, the extensions to compute an SR-TE repair tunnel for the multihomed prefix LFA in the case of SR-ISIS and SRv6-ISIS are automatically enabled if the user also enabled TI-LFA or Remote LFA. The computation reuses the SID list of the primary path or of the TI-LFA or Remote LFA backup path of the alternate ABR or ASBR or alternate owner router.

Introduced	25.3.R2
Platforms	SAR Gen 2

preference *keyword*

Synopsis	Multihomed prefix LFA backup path preference
Context	**configure** router *named-item-64* isis *number* loopfree-alternate multi-homed-prefix preference *keyword*
Tree	preference
Options	none, all
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-lfa

Synopsis	Enable the **remote-lfa** context
Context	**configure** router *named-item-64* isis *number* loopfree-alternate remote-lfa
Tree	remote-lfa

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Introduced	25.3.R2
Platforms	SAR Gen 2

max-pq-cost *number*

Synopsis	Maximum cost of destination node during reverse SPF calculation
Context	**configure** router *named-item-64* isis *number* loopfree-alternate remote-lfa max-pq-cost *number*
Tree	max-pq-cost
Max. range	0 to 4294967295
Default	4261412864
Introduced	25.3.R2
Platforms	SAR Gen 2

node-protect

Synopsis	Enable the **node-protect** context
Context	**configure** router *named-item-64* isis *number* loopfree-alternate remote-lfa node-protect
Tree	node-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

max-pq-nodes *number*

Synopsis	Maximum number of PQ nodes found in the LFA SPFs
Context	**configure** router *named-item-64* isis *number* loopfree-alternate remote-lfa node-protect max-pq-nodes *number*
Tree	max-pq-nodes
Range	1 to 32
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

ti-lfa

Synopsis	Enable the **ti-lfa** context

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Context	**configure** router *named-item-64* isis *number* loopfree-alternate ti-lfa
Tree	ti-lfa
Description	Commands in this context enable the use of the Topology-Independent LFA (TI-LFA) algorithm in the LFA SPF calculation for this IS-IS instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sr-frr-labels *number*

Synopsis	Maximum number of labels the TI-LFA backup path can use
Context	**configure** router *named-item-64* isis *number* loopfree-alternate ti-lfa max-sr-frr-labels *number*
Tree	max-sr-frr-labels
Description	This command configures the maximum number of labels allowed in the segment list of the TI-LFA repair tunnel. A higher value results in better coverage by TI-LFA at the expense of increased packet encapsulation overhead. The TI-LFA algorithm uses this value to limit the search for the Q-node from the P-node on the post-convergence path.
Range	0 to 3
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

node-protect

Synopsis	Enable the **node-protect** context
Context	**configure** router *named-item-64* isis *number* loopfree-alternate ti-lfa node-protect
Tree	node-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-lifetime *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Amount of time during which an LSP is considered valid

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Context	**configure** router *named-item-64* isis *number* lsp-lifetime *number*
Tree	lsp-lifetime
Range	350 to 65535
Units	seconds
Default	1200
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-minimum-remaining-lifetime *number*

Synopsis	Minimum value for the Remaining Lifetime of an LSP
Context	**configure** router *named-item-64* isis *number* lsp-minimum-remaining-lifetime *number*
Tree	lsp-minimum-remaining-lifetime
Range	350 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-mtu-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	LSP MTU size
Context	**configure** router *named-item-64* isis *number* lsp-mtu-size *number*
Tree	lsp-mtu-size
Range	490 to 9778
Units	bytes
Default	1492
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-refresh

Synopsis	Enter the **lsp-refresh** context

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Context	**configure** router *named-item-64* isis *number* lsp-refresh
Tree	lsp-refresh
Introduced	25.3.R2
Platforms	SAR Gen 2

half-lifetime *boolean*

Synopsis	Set the refresh interval to always be half the LSP lifetime
Context	**configure** router *named-item-64* isis *number* lsp-refresh half-lifetime *boolean*
Tree	half-lifetime
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Refresh timer interval
Context	**configure** router *named-item-64* isis *number* lsp-refresh interval *number*
Tree	interval
Range	150 to 65535
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-part-tlv

Synopsis	Enter the **multi-part-tlv** context
Context	**configure** router *named-item-64* isis *number* multi-part-tlv
Tree	multi-part-tlv
Description	Commands in this context configure the behavior of the MP-TLV capability.
Introduced	26.3.R1
Platforms	SAR Gen 2

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neighbor *boolean*

Synopsis	Enable origination of multi-part neighbor TLVs
Context	**configure** router *named-item-64* isis *number* multi-part-tlv neighbor *boolean*
Tree	neighbor
Description	When configured to **true**, the router splits neighbor TLVs (TLV 22 and TLV 222) that exceed the maximum size into MP-TLVs of the same type and key. When configured to **false**, the router truncates neighbor TLVs to fit the maximum size limit.
Default	true
Introduced	26.3.R1
Platforms	SAR Gen 2

srlg *boolean*

Synopsis	Enable origination of multi-part SRLG TLVs
Context	**configure** router *named-item-64* isis *number* multi-part-tlv srlg *boolean*
Tree	srlg
Description	When configured to **true**, the router splits SRLG TLVs (TLV 138 and TLV 238) that exceed the maximum size into MP-TLVs of the same type and key. When configured to **false**, the router truncates SRLG TLVs to fit the maximum size limit.
Default	true
Introduced	26.3.R1
Platforms	SAR Gen 2

multi-topology

Synopsis	Enable the **multi-topology** context
Context	**configure** router *named-item-64* isis *number* multi-topology
Tree	multi-topology
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast *boolean*

Synopsis	Support IPv4 topology (MT3)

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Context	**configure** router *named-item-64* isis *number* multi-topology ipv4-multicast *boolean*
Tree	ipv4-multicast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-multicast *boolean*

Synopsis	Support IPv6 topology (MT4)
Context	**configure** router *named-item-64* isis *number* multi-topology ipv6-multicast *boolean*
Tree	ipv6-multicast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast *boolean*

Synopsis	Support multi-topology TLVs
Context	**configure** router *named-item-64* isis *number* multi-topology ipv6-unicast *boolean*
Tree	ipv6-unicast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import

Synopsis	Enter the **multicast-import** context
Context	**configure** router *named-item-64* isis *number* multicast-import
Tree	multicast-import
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Submit IPv4 routes into the multicast RPF of the RTM

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Context	**configure** router *named-item-64* isis *number* multicast-import ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Submit IPv6 routes into the multicast RPF of the RTM
Context	**configure** router *named-item-64* isis *number* multicast-import ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload

Synopsis	Enable the **overload** context
Context	**configure** router *named-item-64* isis *number* overload
Tree	overload
Introduced	25.3.R2
Platforms	SAR Gen 2

max-metric *boolean*

Synopsis	Advertise transit links with maximum metric instead of setting overload bit
Context	**configure** router *named-item-64* isis *number* overload max-metric *boolean*
Tree	max-metric
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-export-external *boolean*

Synopsis	Advertise the external routes when router is in overloaded

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Context	**configure** router *named-item-64* isis *number* overload-export-external *boolean*
Tree	overload-export-external
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-export-interlevel *boolean*

Synopsis	Advertise the inter-level routes when router is overloaded
Context	**configure** router *named-item-64* isis *number* overload-export-interlevel *boolean*
Tree	overload-export-interlevel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-fib-error-notify-only

Synopsis	Enable the **overload-fib-error-notify-only** context
Context	**configure** router *named-item-64* isis *number* overload-fib-error-notify-only
Tree	overload-fib-error-notify-only
Description	Commands in this context configure the IS-IS router to send a notification when an overload condition occurs while programming the FIB, instead of advertising the overload condition of the router in the IS-IS LSP. **Note**: Nokia recommends being careful using this command. When you configure the router not to advertise the IS-IS overload state in the IS-IS LSP, other routers are not instructed to take the overloaded router out of the IS-IS forwarding topology and this will cause suboptimal forwarding and non-deterministic behavior on the overloaded router. To avoid changing the default IS-IS overflow behavior, leave this command disabled. When this command is configured, the IS-IS router enters a suboptimal state where it sends only a notification trap; transit traffic can still use the router in this state. The IS-IS router tracks the segment routing prefix SIDs where FIB programming failed. With the **retry** command configured, the router retries programming the segment routing prefix SIDs in the FIB using this tracked information. When this command is not configured, during normal operation, the system may force the router to enter an overload state because of a lack of FIB resources. In this state, the router is used to terminate traffic and is not used to transit traffic.
Introduced	25.3.R2
Platforms	SAR Gen 2

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retry *number*

Synopsis	Time to retry programming failed entries in the FIB
Context	**configure** router *named-item-64* isis *number* overload-fib-error-notify-only retry *number*
Tree	retry
Description	This command configures the time the router uses to retry programming the failed entries in the FIB. The **overload-fib-error-notify-only** command must be configured to use the retry timer. The removal of the **overload-fib-error-notify-only** configuration causes the system to program the failed entries in the FIB by triggering an immediate SPF.
Range	10 to 1800
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-locators *boolean*

Synopsis	Advertise SRv6 locators if IS-IS instance overloads
Context	**configure** router *named-item-64* isis *number* overload-include-locators *boolean*
Tree	overload-include-locators
Description	When configured to **true**, if the IS-IS instance goes into overload (because of resource depletion or manual configuration), the router includes SRv6 locators when it advertises links and prefixes with **max-metric**.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-on-boot

Synopsis	Enable the **overload-on-boot** context
Context	**configure** router *named-item-64* isis *number* overload-on-boot
Tree	overload-on-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-metric *boolean*

Synopsis	Advertise transit links with maximum metric instead of setting overload bit
Context	**configure** router *named-item-64* isis *number* overload-on-boot max-metric *boolean*
Tree	max-metric
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time during which the router operates in overload state after reboot
Context	**configure** router *named-item-64* isis *number* overload-on-boot timeout *number*
Tree	timeout
Range	60 to 1800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

poi-tlv *boolean*

Synopsis	Purge Originator Identification TLV
Context	**configure** router *named-item-64* isis *number* poi-tlv *boolean*
Tree	poi-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-attributes-tlv *boolean*

Synopsis	Use IS-IS Prefix Attributes TLV to exchange extended IPv4 and IPv6 reachability information
Context	**configure** router *named-item-64* isis *number* prefix-attributes-tlv *boolean*
Tree	prefix-attributes-tlv
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-limit

Synopsis	Enable the **prefix-limit** context
Context	**configure** router *named-item-64* isis *number* prefix-limit
Tree	prefix-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Maximum number of prefixes for IS-IS instance
Context	**configure** router *named-item-64* isis *number* prefix-limit limit *number*
Tree	limit
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Send warning message when the prefix limit is reached
Context	**configure** router *named-item-64* isis *number* prefix-limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-timeout *(number | keyword)*

Synopsis	Time in overload state when prefix limit is reached
Context	**configure** router *named-item-64* isis *number* prefix-limit overload-timeout *(number | keyword)*

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Tree	overload-timeout
Range	1 to 1800
Units	seconds
Options	forever
Default	forever
Introduced	25.3.R2
Platforms	SAR Gen 2

warning-threshold *number*

Synopsis	Threshold value to trigger a warning message to be sent
Context	**configure** router *named-item-64* isis *number* prefix-limit warning-threshold *number*
Tree	warning-threshold
Range	0 to 100
Units	percent
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-unreachable

Synopsis	Enter the **prefix-unreachable** context
Context	**configure** router *named-item-64* isis *number* prefix-unreachable
Tree	prefix-unreachable
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-upas *number*

Synopsis	Maximum number of UPAs the router can advertise
Context	**configure** router *named-item-64* isis *number* prefix-unreachable maximum-number-upas *number*
Tree	maximum-number-upas
Description	This command configures a limit for the number of UPAs the router can advertise. If overrun, a system log is generated and additional UPAs are not advertised.

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Range	1 to 8192
Default	32
Introduced	25.3.R2
Platforms	SAR Gen 2

process-received-upa *boolean*

Synopsis	Process received UPA
Context	**configure** router *named-item-64* isis *number* prefix-unreachable process-received-upa *boolean*
Tree	process-received-upa
Description	When configured to **true**, the router enables processing of received UPAs from other routers. Received UPAs are inserted into the unicast routing table as unreachable prefixes. When configured on an Area Boundary Router (ABR), received UPAs are inserted into the unreachable prefix table and redistributed into the other areas. When configured to **false**, received UPAs are ignored by the router.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

upa-lifetime *number*

Synopsis	Time during which a UPA is advertised
Context	**configure** router *named-item-64* isis *number* prefix-unreachable upa-lifetime *number*
Tree	upa-lifetime
Range	30 to 1800
Units	seconds
Default	180
Introduced	25.3.R2
Platforms	SAR Gen 2

upa-metric *number*

Synopsis	Metric to an advertised UPA
Context	**configure** router *named-item-64* isis *number* prefix-unreachable upa-metric *number*
Tree	upa-metric

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Range	4261412865 to 4294967294
Default	4261412865
Introduced	25.3.R2
Platforms	SAR Gen 2

psnp-authentication *boolean*

Synopsis	Authenticate individual IS-IS protocol packets of partial sequence number PDU (PSNP) type
Context	**configure** router *named-item-64* isis *number* psnp-authentication *boolean*
Tree	psnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-bandwidth *number*

Synopsis	Reference bandwidth for bandwidth relative costing
Context	**configure** router *named-item-64* isis *number* reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 18446744073709551615
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority

Synopsis	Enter the **rib-priority** context
Context	**configure** router *named-item-64* isis *number* rib-priority
Tree	rib-priority
Introduced	25.3.R2
Platforms	SAR Gen 2

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high

Synopsis	Enter the **high** context
Context	**configure** router *named-item-64* isis *number* rib-priority high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *reference*

Synopsis	List used to select routes processed at higher priority through OSPF route calculation process
Context	**configure** router *named-item-64* isis *number* rib-priority high prefix-list *reference*
Tree	prefix-list
Reference	**configure** policy-options prefix-list *named-item-64*
Notes	The following elements are part of a choice: **prefix-list** or **tag**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Tag value that is used to match IS-IS routes
Context	**configure** router *named-item-64* isis *number* rib-priority high tag *number*
Tree	tag
Range	1 to 4294967295
Notes	The following elements are part of a choice: **prefix-list** or **tag**.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *router-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Unique router ID for the ISIS instance

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Context	**configure** router *named-item-64* isis *number* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-routing

Synopsis	Enter the **segment-routing** context
Context	**configure** router *named-item-64* isis *number* segment-routing
Tree	segment-routing
Introduced	25.3.R2
Platforms	SAR Gen 2

adj-sid-hold *(number | keyword)*

Synopsis	Adjacency SID hold time
Context	**configure** router *named-item-64* isis *number* segment-routing adj-sid-hold *(number | keyword)*
Tree	adj-sid-hold
Description	This command configures a timer to hold the ILM or LTN of an adjacency SID following a failure of the adjacency. When an adjacency to a neighbor fails, the following procedure is followed for both an LFA protected and the LFA unprotected SID of this adjacency in SR-MPLS. An adjacency can have both types of SIDs assigned by configuration. An LFA protected adjacency SID is eligible for LFA protection, however, the following procedure applies even if an LFA backup is not programmed at the time of the failure. An LFA unprotected adjacency SID is not eligible for LFA protection. • IGP withdraws the advertisement of the link TLV as well as its adjacency SID sub-TLV. • The adjacency SID hold timer starts. • The LTN and ILM records of the adjacency are kept in the datapath for as long as the adjacency SID hold time is running. This allows packets to flow over the LFA backup path, when the adjacency is protected, and allows the ingress LER or PCE time to compute a new path of the SR-TE LSP after IGP converges. • If the adjacency is restored while the adjacency SID hold timer is running, the timer is aborted, and the adjacency SID remains programmed in the datapath with the retained SID values. However, the backup NHLFE may change if a new LFA SPF runs while the adjacency SID hold timer running. An update to the backup NHLFE is

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performed immediately following the LFA SPF. In all cases, the adjacency keeps its assigned SID label value.

- If the adjacency SID hold timer expires before the adjacency is restored, the SID is deprogrammed from the datapath and the label returned into the common pool where it was drawn from. Users of the adjacency (for example, SR policy and SR-TE LSP) are also informed. When the adjacency is subsequently restored, it gets assigned its allocated static-label value or a new dynamic-label value.
- A new PG-ID is assigned each time an adjacency comes back up. This PG-ID is used by the ILM and LTN of the adjacency SID and of all downstream node SIDs that resolve to a next hop over this adjacency.

Range	1 to 1800
Units	seconds
Options	none
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-set [id] *number*

Synopsis	Enter the **adjacency-set** list instance
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number*
Tree	adjacency-set
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Identifier for specified adjacency set
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number*
Tree	adjacency-set
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise *boolean*

Synopsis	Advertise the adjacency set when all links terminate on the same neighboring node
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

family *keyword*

Synopsis	Address family for the adjacency set
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number* family *keyword*
Tree	family
Options	ipv4, ipv6
Default	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

parallel *boolean*

Synopsis	Require all members of the adjacency set to terminate on the same neighboring node
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number* parallel *boolean*
Tree	parallel
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

sid

Synopsis	Enable the **sid** context
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number* sid
Tree	sid

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Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Adjacency SID label
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-set *number* sid label *number*
Tree	label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-sid

Synopsis	Enter the **adjacency-sid** context
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-sid
Tree	adjacency-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

allocate-dual-sids *boolean*

Synopsis	Allocate dual adjacency SIDs per interface
Context	**configure** router *named-item-64* isis *number* segment-routing adjacency-sid allocate-dual-sids *boolean*
Tree	allocate-dual-sids
Description	When configured to **true**, the router supports two SR-MPLS adjacency SIDs per interface. A protected and unprotected adjacency SID is instantiated and advertised. If an SR-MPLS adjacency SID already exists, an additional complementary (protected or unprotected) adjacency SID is created on the interface. When configured to **false**, the router disables the support of two SR-MPLS adjacency SIDs per interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of segment routing
Context	**configure** router *named-item-64* isis *number* segment-routing admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label *boolean*

Synopsis	Enable processing of received ELC signaled in the IGP
Context	**configure** router *named-item-64* isis *number* segment-routing entropy-label *boolean*
Tree	entropy-label
Introduced	25.3.R2
Platforms	SAR Gen 2

export-tunnel-table *keyword*

Synopsis	Tunnel table export policies to export tunneled routes
Context	**configure** router *named-item-64* isis *number* segment-routing export-tunnel-table *keyword*
Tree	export-tunnel-table
Options	ldp
Introduced	25.3.R2
Platforms	SAR Gen 2

mapping-server

Synopsis	Enter the **mapping-server** context
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server
Tree	mapping-server
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the IS-IS mapping server
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

node-sid-map [sid-index] *number*

Synopsis	Enter the **node-sid-map** list instance
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number*
Tree	node-sid-map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sid-index**] *number*

Synopsis	SID index of a mapping server Prefix-SID
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number*
Tree	node-sid-map
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-n-flag *boolean*

Synopsis	Clear the node-sid flag (N-flag)
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number* clear-n-flag *boolean*

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Tree	clear-n-flag
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix *ipv4-unicast-prefix*

Synopsis	Prefix of a mapping server Prefix-SID
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number* ip-prefix *ipv4-unicast-prefix*
Tree	ip-prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

level-capability *keyword*

Synopsis	Flags to assign in SID Label Binding TLV advertised by Segment Routing Mapping Server
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number* level-capability *keyword*
Tree	level-capability
Options	1, 2, 1/2
Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

range *number*

Synopsis	Range of addresses and their associated prefix SIDs
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number* range *number*
Tree	range
Range	0 to 65535
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

set-flags

Synopsis	Enter the **set-flags** context
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number* set-flags
Tree	set-flags
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-s *boolean*

Synopsis	SID Label Binding TLV to be flooded across the entire routing domain
Context	**configure** router *named-item-64* isis *number* segment-routing mapping-server node-sid-map *number* set-flags bit-s *boolean*
Tree	bit-s
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-sid-depth

Synopsis	Enter the **maximum-sid-depth** context
Context	**configure** router *named-item-64* isis *number* segment-routing maximum-sid-depth
Tree	maximum-sid-depth
Introduced	25.3.R2
Platforms	SAR Gen 2

override-bmi *number*

Synopsis	Value to override the announced node MSD-BMI value
Context	**configure** router *named-item-64* isis *number* segment-routing maximum-sid-depth override-bmi *number*
Tree	override-bmi
Description	This command overrides the announced MSD node Base MPLS Imposition (BMI) value. The MSD-BMI value announced by a router can be used by recipients to understand the

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number of MPLS labels that can be imposed inclusive of all service, transport, or special labels.

When unconfigured, the router announces the maximum supported BMI of the node assuming the most simple services and Layer 2 encapsulation.

Range	0 to 13
Introduced	25.3.R2
Platforms	SAR Gen 2

override-erld *number*

Synopsis	Value to override the announced node MSD-ERLD value
Context	**configure** router *named-item-64* isis *number* segment-routing maximum-sid-depth override-erld *number*
Tree	override-erld
Description	This command configures the override Entropy Readable Label Depth (ERLD) Maximum Sid Depth (MSD) value. Information about the capability of each intermediate LSR of reading the maximum label stack depth is used by ingress LSRs to perform EL-based load balancing. When unconfigured, the router announces the node maximum supported ERLD assuming the most simple Layer 2 encapsulation.
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

micro-loop-avoidance

Synopsis	Enable the **micro-loop-avoidance** context
Context	**configure** router *named-item-64* isis *number* segment-routing micro-loop-avoidance
Tree	micro-loop-avoidance
Description	Commands in this context configure the microloop avoidance feature in the IGP instance. This feature prevents microloops from using Segment Routing (SR) loop-free tunnels for packets that are forwarded over SR IS-IS node SID tunnels. These commands enable microloop avoidance for MT0. Microloop avoidance for MT2 is enabled when this command is enabled along with SR-MPLS MT2 using the **configure router isis segment-routing multi-topology mt2** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fib-delay *number*

Synopsis	FIB delay before programming new primary next-hops
Context	**configure** router *named-item-64* isis *number* segment-routing micro-loop-avoidance fib-delay *number*
Tree	fib-delay
Description	This command specifies the delay time before programming the new next-hops for the SR tunnel.
Range	1 to 300
Units	deciseconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-topology

Synopsis	Enter the **multi-topology** context
Context	**configure** router *named-item-64* isis *number* segment-routing multi-topology
Tree	multi-topology
Introduced	25.3.R2
Platforms	SAR Gen 2

mt2 *boolean*

Synopsis	Support IPv6 routing topology (MT2)
Context	**configure** router *named-item-64* isis *number* segment-routing multi-topology mt2 *boolean*
Tree	mt2
Description	When configured to **true**, the router enables SR-MPLS for MS-ISIS MT, which enables Segment Routing in MT2.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-sid-range

Synopsis	Enable the **prefix-sid-range** context
Context	**configure** router *named-item-64* isis *number* segment-routing prefix-sid-range
Tree	prefix-sid-range
Description	Commands in this context configure the label block BGP segment routing can use.
Introduced	25.3.R2
Platforms	SAR Gen 2

global

Synopsis	BGP global SR range allocation
Context	**configure** router *named-item-64* isis *number* segment-routing prefix-sid-range global
Tree	global
Description	When configured, the system allows BGP to allocate labels from the SRGB space, as defined under the **configure router mpls-labels sr-labels** context.
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

max-index *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Upper bound value for the local SID index
Context	**configure** router *named-item-64* isis *number* segment-routing prefix-sid-range max-index *number*
Tree	max-index
Range	0 to 1048575
Default	1
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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start-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Lower bound value for the local label offset
Context	**configure** router *named-item-64* isis *number* segment-routing prefix-sid-range start-label *number*
Tree	start-label
Range	0 to 1048575
Default	0
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

srlb *reference*

Synopsis	Segment routing local block
Context	**configure** router *named-item-64* isis *number* segment-routing srlb *reference*
Tree	srlb
Reference	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-mtu *number*

Synopsis	Tunnel MTU size
Context	**configure** router *named-item-64* isis *number* segment-routing tunnel-mtu *number*
Tree	tunnel-mtu
Range	512 to 9786
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunnel-table-pref *number*

Synopsis Preference of SR tunnels created by the IGP instance

Context **configure** router *named-item-64* isis *number* segment-routing tunnel-table-pref *number*

Tree tunnel-table-pref

Description This command configures the TTM preference of SR tunnels created by the IGP instance. This is used in the case of BGP shortcuts, VPRN auto-bind, or BGP transport tunnel when the new tunnel binding commands are configured to the **any** value which parses the TTM for tunnels in the protocol preference order. The user can choose to either go with the global TTM preference or list explicitly the tunnel types they want to use. When they list the tunnel types explicitly, the TTM preference is still used to select one type over the other. In both cases, a fallback to the next preferred tunnel type is performed if the selected one fails. Also, a reversion to a more preferred tunnel type is performed as soon as one is available.

The segment routing module adds to TTM a SR tunnel entry for each resolved remote node SID prefix and programs the data path with the corresponding LTN with the push operation pointing to the primary and LFA backup NHLFEs.

The default preference for SR tunnels in the TTM is set lower than LDP tunnels but higher than BGP tunnels to allow controlled migration of customers without disrupting their current deployment when they enable segment routing. The following is the setting of the default preference of the various tunnel types. This includes the preference of SR tunnels based on shortest path (referred to as **SR-ISIS** and **SR-OSPF**).

The global default TTM preference for the tunnel types is as follows:

- ROUTE_PREF_RSVP 7
- ROUTE_PREF_SR_TE 8
- ROUTE_PREF_LDP 9
- ROUTE_PREF_OSPF_TTM 10
- ROUTE_PREF_ISIS_TTM 11
- ROUTE_PREF_BGP_TTM 12
- ROUTE_PREF_GRE 255

The default value for SR-ISIS or SR-OSPF is the same regardless if one or more instances of that protocol programmed a tunnel for the same prefix. The selection of a SR tunnel in this case is based on the lowest preference IGP instance. In the case of a tie, the instance with the lowest metric SR tunnel is selected over the lowest numbered IGP instance.

It is recommended to not set two or more tunnel types to the same preference value. In such a situation, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.

Range 1 to 255

Default 11

Introduced 25.3.R2

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Platforms	SAR Gen 2

standard-multi-instance *boolean*

Synopsis	Enable RFC standards compliant multi-instance behavior
Context	**configure** router *named-item-64* isis *number* standard-multi-instance *boolean*
Tree	standard-multi-instance
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-adjacency-check *boolean*

Synopsis	Enable strict checking of address families for IS-IS adjacencies
Context	**configure** router *named-item-64* isis *number* strict-adjacency-check *boolean*
Tree	strict-adjacency-check
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

summary-address [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **summary-address** list instance
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)*
Tree	summary-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for the summary address
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)*
Tree	summary-address
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

advertise-unreachable

Synopsis	Enable the **advertise-unreachable** context
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* advertise-unreachable
Tree	advertise-unreachable
Description	Commands in this context enable Unreachable Prefix Announcements (UPAs) for summary member routes. A UPA is advertised for IPv4 and IPv6 summary member prefixes when a summary member prefix suddenly becomes unreachable. By default, all summary member prefixes are monitored for reachability.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-route-tag *number*

Synopsis	Route tag to advertise in UPA
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* advertise-unreachable advertise-route-tag *number*
Tree	advertise-route-tag
Description	This command configures a UPA route tag to add to the advertised UPA. The UPA route tag can be used when there are multiple Autonomous System Boundary Routers (ASBRs) redistributing prefixes between two Interior Gateway Protocol (IGP) areas.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

match-route-tag *number*

Synopsis	Route tag to match UPA
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* advertise-unreachable match-route-tag *number*
Tree	match-route-tag
Description	This command specifies the route tag to be used (by the router) as the basis to select a subset of summary member prefixes to monitor for reachability.
Range	1 to 4294967295
Introduced	25.3.R2

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Platforms	SAR Gen 2

level-capability *keyword*

Synopsis	IS-IS level for the summary address
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* level-capability *keyword*
Tree	level-capability
Options	1, 2, 1/2
Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

Synopsis	Route tag assigned to the summary address
Context	**configure** router *named-item-64* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* route-tag *number*
Tree	route-tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-attached-bit *boolean*

Synopsis	Allow IS-IS to suppress setting attached bit on LSPs
Context	**configure** router *named-item-64* isis *number* suppress-attached-bit *boolean*
Tree	suppress-attached-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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system-id *system-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System ID
Context	**configure** router *named-item-64* isis *number* system-id *system-id*
Tree	system-id
String length	14
Default	0000.0000.0000
String format	'system-id' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enter the **timers** context
Context	**configure** router *named-item-64* isis *number* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-wait

Synopsis	Enter the **lsp-wait** context
Context	**configure** router *named-item-64* isis *number* timers lsp-wait
Tree	lsp-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-initial-wait *number*

Synopsis	Initial LSP generation delay
Context	**configure** router *named-item-64* isis *number* timers lsp-wait lsp-initial-wait *number*
Tree	lsp-initial-wait

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Range	10 to 100000
Units	milliseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-max-wait *number*

Synopsis	Maximum time between two consecutive LSP occurrences
Context	**configure** router *named-item-64* isis *number* timers lsp-wait lsp-max-wait *number*
Tree	lsp-max-wait
Range	10 to 120000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-second-wait *number*

Synopsis	Delay between first and second LSP generation
Context	**configure** router *named-item-64* isis *number* timers lsp-wait lsp-second-wait *number*
Tree	lsp-second-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** router *named-item-64* isis *number* timers spf-wait
Tree	spf-wait
Introduced	25.3.R2

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Platforms	SAR Gen 2

spf-initial-wait *number*

Synopsis	Initial SPF calculation delay after topology change
Context	**configure** router *named-item-64* isis *number* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-max-wait *number*

Synopsis	Maximum interval amid two consecutive SPF calculations
Context	**configure** router *named-item-64* isis *number* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Units	milliseconds
Default	10000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-second-wait *number*

Synopsis	Hold time between first and second SPF calculations
Context	**configure** router *named-item-64* isis *number* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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traffic-engineering *boolean*

Synopsis	Enable traffic engineering for the router
Context	**configure** router *named-item-64* isis *number* traffic-engineering *boolean*
Tree	traffic-engineering
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traffic-engineering-options

Synopsis	Enter the **traffic-engineering-options** context
Context	**configure** router *named-item-64* isis *number* traffic-engineering-options
Tree	traffic-engineering-options
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-delay *boolean*

Synopsis	Enable the advertisement of link delay for TE
Context	**configure** router *named-item-64* isis *number* traffic-engineering-options advertise-delay *boolean*
Tree	advertise-delay
Description	When configured to **true**, the router advertises link delay in the IGP LSDB within legacy Traffic Engineering (TE) attributes in IS-IS or within the Application-Specific Link Attribute (ASLA) when ASLA is enabled for SR-TE or RSVP-TE applications. When the **application-link-attributes legacy** command is configured for SR-TE or RSVP-TE, link delay is advertised as a legacy TE TLV with the ASLA legacy bit set. When configured to **false**, the router disables link delay advertisement.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

application-link-attributes

Synopsis	Enable the **application-link-attributes** context

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Context	**configure** router *named-item-64* isis *number* traffic-engineering-options application-link-attributes
Tree	application-link-attributes
Introduced	25.3.R2
Platforms	SAR Gen 2

legacy *boolean*

Synopsis	Advertise legacy TE attributes
Context	**configure** router *named-item-64* isis *number* traffic-engineering-options application-link-attributes legacy *boolean*
Tree	legacy
Description	When configured to **true**, the router supports the legacy mode of advertising TE attributes. When configured to **false**, legacy mode is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Advertise IS-IS IPv6 Traffic Engineering
Context	**configure** router *named-item-64* isis *number* traffic-engineering-options ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-import

Synopsis	Enter the **unicast-import** context
Context	**configure** router *named-item-64* isis *number* unicast-import
Tree	unicast-import
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *boolean*

Synopsis	Submit IPv4 routes into unicast RTM
Context	**configure** router *named-item-64* isis *number* unicast-import ipv4 *boolean*
Tree	ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Submit IPv6 routes into unicast RTM
Context	**configure** router *named-item-64* isis *number* unicast-import ipv6 *boolean*
Tree	ipv6
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp

Synopsis	Enable the **ldp** context
Context	**configure** router *named-item-64* ldp
Tree	ldp
Description	Commands in this context configure LDP command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of LDP
Context	**configure** router *named-item-64* ldp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2

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Platforms	SAR Gen 2

aggregate-prefix-match

Synopsis	Enable the **aggregate-prefix-match** context
Context	**configure** router *named-item-64* ldp aggregate-prefix-match
Tree	aggregate-prefix-match
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LDP aggregate prefix match
Context	**configure** router *named-item-64* ldp aggregate-prefix-match admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-exclude *reference*

Synopsis	Import policies to filter LDP label bindings received from LDP peers
Context	**configure** router *named-item-64* ldp aggregate-prefix-match prefix-exclude *reference*
Tree	prefix-exclude
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

consider-system-ip-in-gep *boolean*

Synopsis	Apply global export policy for system IP FEC creation

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Context	**configure** router *named-item-64* ldp consider-system-ip-in-gep *boolean*
Tree	consider-system-ip-in-gep
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label-capability *boolean*

Synopsis	Enable entropy label capability on the LDP instance
Context	**configure** router *named-item-64* ldp entropy-label-capability *boolean*
Tree	entropy-label-capability
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies to determine routes exported to LDP
Context	**configure** router *named-item-64* ldp export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-tunnel-table *reference*

Synopsis	Tunnel table export policies to export tunneled routes
Context	**configure** router *named-item-64* ldp export-tunnel-table *reference*
Tree	export-tunnel-table
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-reroute

Synopsis	Enable the **fast-reroute** context
Context	**configure** router *named-item-64* ldp fast-reroute
Tree	fast-reroute
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-sr-tunnel *boolean*

Synopsis	Use SR tunnel as a remote LFA backup tunnel next-hop by an LDP FEC
Context	**configure** router *named-item-64* ldp fast-reroute backup-sr-tunnel *boolean*
Tree	backup-sr-tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-originate [fec-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **fec-originate** list instance
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)*
Tree	fec-originate
Introduced	25.3.R2
Platforms	SAR Gen 2

[fec-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Static FEC IP prefix
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)*
Tree	fec-originate
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-label *number*

Synopsis	Label that is advertised to upstream peer
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)* advertised-label *number*
Tree	advertised-label
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *named-item-or-empty*

Synopsis	Interface name for this static FEC prefix
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)* interface *named-item-or-empty*
Tree	interface
String length	0 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: (**interface**, **next-hop**, and **swap-label**) or **pop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone \| ipv6-address-no-zone)*

Synopsis	IP address of the next hop
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)* next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: (**interface**, **next-hop**, and **swap-label**) or **pop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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pop *boolean*

Synopsis	Pop the label and transmit without the label
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)* pop *boolean*
Tree	pop
Notes	The following elements are part of a choice: (**interface**, **next-hop**, and **swap-label**) or **pop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

swap-label *number*

Synopsis	Value mapped to egress label associated with next-hop entry that LSR uses to swap incoming label
Context	**configure** router *named-item-64* ldp fec-originate *(ipv4-prefix | ipv6-prefix)* swap-label *number*
Tree	swap-label
Range	6 to 1048575
Notes	The following elements are part of a choice: (**interface**, **next-hop**, and **swap-label**) or **pop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enter the **graceful-restart** context
Context	**configure** router *named-item-64* ldp graceful-restart
Tree	graceful-restart
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-mode *boolean*

Synopsis	Enable graceful restart helper
Context	**configure** router *named-item-64* ldp graceful-restart helper-mode *boolean*
Tree	helper-mode

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-recovery-time *number*

Synopsis	Value for the local maximum recovery time
Context	**configure** router *named-item-64* ldp graceful-restart maximum-recovery-time *number*
Tree	maximum-recovery-time
Range	15 to 1800
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-liveness-time *number*

Synopsis	Value for the neighbor liveness timer
Context	**configure** router *named-item-64* ldp graceful-restart neighbor-liveness-time *number*
Tree	neighbor-liveness-time
Range	5 to 300
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

implicit-null-label *boolean*

Synopsis	Signal the implicit null label value for all LDP FECs for which the node is the egress LER
Context	**configure** router *named-item-64* ldp implicit-null-label *boolean*
Tree	implicit-null-label
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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import-pmsi-routes

Synopsis	Enter the **import-pmsi-routes** context
Context	**configure** router *named-item-64* ldp import-pmsi-routes
Tree	import-pmsi-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policies to filter LDP label bindings received from LDP peers
Context	**configure** router *named-item-64* ldp import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-tunnel-table *reference*

Synopsis	Tunnel table import policies for non-host prefixes
Context	**configure** router *named-item-64* ldp import-tunnel-table *reference*
Tree	import-tunnel-table
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-parameters

Synopsis	Enter the **interface-parameters** context

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Context	**configure** router *named-item-64* ldp interface-parameters
Tree	interface-parameters
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-int-name] *reference*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-int-name**] *reference*

Synopsis	Interface name
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference*
Tree	interface
Reference	**configure** router *named-item-64* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LDP interface
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

Synopsis	Enter the **bfd-liveness** context
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Allow BFD tracking of IPv4 LDP Session for interface
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* bfd-liveness ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enable the **ipv4** context
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LDP interface
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2

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Platforms	SAR Gen 2

fec-type-capability

Synopsis	Enter the **fec-type-capability** context
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 fec-type-capability
Tree	fec-type-capability
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-ipv4 *boolean*

Synopsis	Enable IPv4 prefix FEC capability
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 fec-type-capability prefix-ipv4 *boolean*
Tree	prefix-ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello

Synopsis	Enable the **hello** context
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for Hello
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 hello factor *number*
Tree	factor
Range	1 to 255

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Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for Hello
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 hello timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive

Synopsis	Enable the **keepalive** context
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 keepalive
Tree	keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for keepalive
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 keepalive factor *number*
Tree	factor
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time that LDP waits before tearing down session

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Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 keepalive timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

local-lsr-id

Synopsis	Enter the **local-lsr-id** context
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 local-lsr-id
Tree	local-lsr-id
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *reference*

Synopsis	Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 local-lsr-id interface-name *reference*
Tree	interface-name
Reference	**configure** router *named-item-64* interface *interface-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

transport-address *keyword*

Synopsis	Transport address to set up the LDP TCP sessions
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* ipv4 transport-address *keyword*
Tree	transport-address
Options	interface, system
Introduced	25.3.R2

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Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load balancing weight for the LDP interface
Context	**configure** router *named-item-64* ldp interface-parameters interface *reference* load-balancing-weight *number*
Tree	load-balancing-weight
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* ldp interface-parameters ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

hello

Synopsis	Enter the **hello** context
Context	**configure** router *named-item-64* ldp interface-parameters ipv4 hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Value for the Hello factor
Context	**configure** router *named-item-64* ldp interface-parameters ipv4 hello factor *number*
Tree	factor
Range	1 to 255
Default	3

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Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for Hello
Context	**configure** router *named-item-64* ldp interface-parameters ipv4 hello timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive

Synopsis	Enter the **keepalive** context
Context	**configure** router *named-item-64* ldp interface-parameters ipv4 keepalive
Tree	keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Value for the keep-alive factor
Context	**configure** router *named-item-64* ldp interface-parameters ipv4 keepalive factor *number*
Tree	factor
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for keepalive

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Context	**configure** router *named-item-64* ldp interface-parameters ipv4 keepalive timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

transport-address *keyword*

Synopsis	Transport address to set up the LDP TCP sessions
Context	**configure** router *named-item-64* ldp interface-parameters ipv4 transport-address *keyword*
Tree	transport-address
Options	interface, system
Default	system
Introduced	25.3.R2
Platforms	SAR Gen 2

label-withdrawal-delay *number*

Synopsis	Time interval during which LDP delays for the withdrawal of FEC-label binding
Context	**configure** router *named-item-64* ldp label-withdrawal-delay *number*
Tree	label-withdrawal-delay
Range	3 to 120
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-shortcut

Synopsis	Enter the **ldp-shortcut** context
Context	**configure** router *named-item-64* ldp ldp-shortcut
Tree	ldp-shortcut

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Forward IPv4 packets by using LDP shortcuts
Context	**configure** router *named-item-64* ldp ldp-shortcut ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

legacy-ipv4-lsr-interop *boolean*

Synopsis	Allow interoperability with legacy IPv4 LSR implementations
Context	**configure** router *named-item-64* ldp legacy-ipv4-lsr-interop *boolean*
Tree	legacy-ipv4-lsr-interop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-bfd [prefix-list] *reference*

Synopsis	Enter the **lsp-bfd** list instance
Context	**configure** router *named-item-64* ldp lsp-bfd *reference*
Tree	lsp-bfd
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-list**] *reference*

Synopsis	Name of a router policy options prefix list
Context	**configure** router *named-item-64* ldp lsp-bfd *reference*

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Tree	lsp-bfd
Reference	**configure** policy-options prefix-list *named-item-64*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD on LDP LSPs for FECs matching prefix list
Context	**configure** router *named-item-64* ldp lsp-bfd *reference* bfd-liveness *boolean*
Tree	bfd-liveness
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-template *reference*

Synopsis	BFD sessions template associated with the prefix list
Context	**configure** router *named-item-64* ldp lsp-bfd *reference* bfd-template *reference*
Tree	bfd-template
Reference	**configure** bfd bfd-template *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

failure-action *keyword*

Synopsis	Reaction to BFD session failure for the prefix list
Context	**configure** router *named-item-64* ldp lsp-bfd *reference* failure-action *keyword*
Tree	failure-action
Options	down
Introduced	25.3.R2
Platforms	SAR Gen 2

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lsp-ping-interval *(number | keyword)*

Synopsis	LSP ping transmit interval for periodic verification
Context	**configure** router *named-item-64* ldp lsp-bfd *reference* lsp-ping-interval *(number | keyword)*
Tree	lsp-ping-interval
Range	60 to 300
Units	seconds
Options	none
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Prefix list to control the search order
Context	**configure** router *named-item-64* ldp lsp-bfd *reference* priority *number*
Tree	priority
Range	1 to 99
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source address in LSP ping and BFD control packets
Context	**configure** router *named-item-64* ldp lsp-bfd *reference* source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

max-ecmp-routes *number*

Synopsis	Maximum ECMP value for LDP

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Context	**configure** router *named-item-64* ldp max-ecmp-routes *number*
Tree	max-ecmp-routes
Description	This command sets the maximum number of ECMP routes that LDP may use to resolve the next hop for a FEC as permitted by the RTM or TTM. The system-wide maximum number of ECMP routes is set by the **configure router ecmp** command; therefore, the operational maximum number used by LDP is set to the lesser of the values configured by this command and the **configure router ecmp** command.
Range	1 to 128
Default	32
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-protocol-stitching *boolean*

Synopsis	Stitch LDP ILM to SR NHLFE even if LDP NHLFE exists
Context	**configure** router *named-item-64* ldp prefer-protocol-stitching *boolean*
Tree	prefer-protocol-stitching
Description	When configured to **true**, an LDP ILM stitches to an SR NHLFE, even if an LDP NHLFE exists. When configured to **false**, the stitching preference of an LDP ILM is to an LDP NHLFE.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-tunnel-in-tunnel *boolean*

Synopsis	Preference tunnel-in-tunnel over a simple LDP tunnel
Context	**configure** router *named-item-64* ldp prefer-tunnel-in-tunnel *boolean*
Tree	prefer-tunnel-in-tunnel
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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session-parameters

Synopsis	Enter the **session-parameters** context
Context	**configure** router *named-item-64* ldp session-parameters
Tree	session-parameters
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Introduced	25.3.R2
Platforms	SAR Gen 2

[ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the LDP peer
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-adj-addr-only *boolean*

Synopsis	Distribute only the local addresses used to establish the Hello adjacencies with a peer
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* adv-adj-addr-only *boolean*
Tree	adv-adj-addr-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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adv-local-lsr-id *boolean*

Synopsis	Advertise local LSR ID over a specified LDP session
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* adv-local-lsr-id *boolean*
Tree	adv-local-lsr-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

community *policy-string*

Synopsis	Community string associated with a session to a specified peer
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* community *policy-string*
Tree	community
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dod-label-distribution *boolean*

Synopsis	Use LDP Downstream-on-Demand (DoD) label distribution procedures
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* dod-label-distribution *boolean*
Tree	dod-label-distribution
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export-addresses *reference*

Synopsis	Export policies to determine which local addresses should be distributed to this peer
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* export-addresses *reference*

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Tree	export-addresses
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-prefixes *reference*

Synopsis	Export policies to determine which FEC prefixes are redistributed to LDP and TLDP peers
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* export-prefixes *reference*
Tree	export-prefixes
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-limit

Synopsis	Enter the **fec-limit** context
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec-limit
Tree	fec-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Maximum number of FECs to be accepted from this peer LSR
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec-limit limit *number*

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Tree	limit
Range	0 | 1 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Trap and syslog message to generate when reaching the threshold and limit
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec-limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold that generates trap and warning when reached
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec-limit threshold *number*
Tree	threshold
Range	1 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

fec-type-capability

Synopsis	Enter the **fec-type-capability** context
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec-type-capability
Tree	fec-type-capability
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-ipv4 *boolean*

Synopsis	Enable IPv4 prefix FEC capability for the session
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec-type-capability prefix-ipv4 *boolean*
Tree	prefix-ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

fec129-cisco-interop *boolean*

Synopsis	Allow translation between non-compliant FEC 129 formats of Cisco
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* fec129-cisco-interop *boolean*
Tree	fec129-cisco-interop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-prefixes *reference*

Synopsis	FEC prefixes to be redistributed to this LDP peer
Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* import-prefixes *reference*
Tree	import-prefixes
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

pe-id-mac-flush-interop *boolean*

Synopsis	Send PE-ID TLV in LDP MAC withdrawal message

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Context	**configure** router *named-item-64* ldp session-parameters peer *(ipv4-address-no-zone | ipv6-address-no-zone)* pe-id-mac-flush-interop *boolean*
Tree	pe-id-mac-flush-interop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

shortcut-local-ttl-propagate *boolean*

Synopsis	Propagate TTL over LSP shortcut for local packets
Context	**configure** router *named-item-64* ldp shortcut-local-ttl-propagate *boolean*
Tree	shortcut-local-ttl-propagate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

shortcut-transit-ttl-propagate *boolean*

Synopsis	Enable TTL propagation over LSP shortcut
Context	**configure** router *named-item-64* ldp shortcut-transit-ttl-propagate *boolean*
Tree	shortcut-transit-ttl-propagate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

targeted-session

Synopsis	Enter the **targeted-session** context
Context	**configure** router *named-item-64* ldp targeted-session
Tree	targeted-session
Introduced	25.3.R2
Platforms	SAR Gen 2

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auto-rx

Synopsis	Enter the **auto-rx** context
Context	**configure** router *named-item-64* ldp targeted-session auto-rx
Tree	auto-rx
Description	Commands in this context specify the LDP session configuration to accept targeted Hello messages from any peer.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* ldp targeted-session auto-rx ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IPv4 capabilities for peers
Context	**configure** router *named-item-64* ldp targeted-session auto-rx ipv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

tunneling *boolean*

Synopsis	Enable tunneling for targeted peers
Context	**configure** router *named-item-64* ldp targeted-session auto-rx ipv4 tunneling *boolean*
Tree	tunneling
Description	When configured to **true**, this command enables the local system to use the targeted LDP session to send FEC label bindings that are advertised to other LDP peers. For

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LDP rLFA, the source node requires the PQ node's label binding information in order to reach the destination.

If the **auto-rx** and **auto-tx** contexts are both administratively enabled, this command must be set to **true** for LDP rLFA to function properly.

When configured to **false**, FEC label bindings are not sent via the LDP session.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-tx

Synopsis	Enter the **auto-tx** context
Context	**configure** router *named-item-64* ldp targeted-session auto-tx
Tree	auto-tx
Description	Commands in this context specify the LDP session configuration to send targeted Hello messages toward PQ nodes determined by the rLFA algorithm.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* ldp targeted-session auto-tx ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IPv4 capabilities for peers
Context	**configure** router *named-item-64* ldp targeted-session auto-tx ipv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunneling *boolean*

Synopsis	Enable tunneling for targeted peers
Context	**configure** router *named-item-64* ldp targeted-session auto-tx ipv4 tunneling *boolean*
Tree	tunneling
Description	When configured to **true**, this command enables the local system to use the targeted LDP session to send FEC label bindings that are advertised to other LDP peers. For LDP rLFA, the source node requires the PQ node's label binding information in order to reach the destination. If the **auto-rx** context is administratively disabled, this command should be set to **true** for LDP rLFA to function properly. When configured to **false**, FEC label bindings are not sent via the LDP session.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export-prefixes *reference*

Synopsis	Export route policy to determine which routes are exported to this targeted LDP session
Context	**configure** router *named-item-64* ldp targeted-session export-prefixes *reference*
Tree	export-prefixes
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-prefixes *reference*

Synopsis	Import route policy to determine which routes are accepted from targeted LDP neighbors
Context	**configure** router *named-item-64* ldp targeted-session import-prefixes *reference*
Tree	import-prefixes
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* ldp targeted-session ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

hello

Synopsis	Enter the **hello** context
Context	**configure** router *named-item-64* ldp targeted-session ipv4 hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for Hello
Context	**configure** router *named-item-64* ldp targeted-session ipv4 hello factor *number*
Tree	factor
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for Hello
Context	**configure** router *named-item-64* ldp targeted-session ipv4 hello timeout *number*
Tree	timeout

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Range	3 to 65535
Units	seconds
Default	45
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-reduction

Synopsis	Enter the **hello-reduction** context
Context	**configure** router *named-item-64* ldp targeted-session ipv4 hello-reduction
Tree	hello-reduction
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of suppression of Hello messages
Context	**configure** router *named-item-64* ldp targeted-session ipv4 hello-reduction admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Hello reduction dampening factor
Context	**configure** router *named-item-64* ldp targeted-session ipv4 hello-reduction factor *number*
Tree	factor
Range	3 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

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keepalive

Synopsis	Enter the **keepalive** context
Context	**configure** router *named-item-64* ldp targeted-session ipv4 keepalive
Tree	keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for keepalive
Context	**configure** router *named-item-64* ldp targeted-session ipv4 keepalive factor *number*
Tree	factor
Range	1 to 255
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for keepalive
Context	**configure** router *named-item-64* ldp targeted-session ipv4 keepalive timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Default	40
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the LDP peer
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LDP peer
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD tracking of LDP session for the peer
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* bfd-liveness *boolean*
Tree	bfd-liveness
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello

Synopsis	Enable the **hello** context
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for Hello
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* hello factor *number*
Tree	factor
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for Hello
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* hello timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-reduction

Synopsis	Enable the **hello-reduction** context
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* hello-reduction
Tree	hello-reduction

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of suppression of Hello messages
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* hello-reduction admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Hello reduction dampening factor
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* hello-reduction factor *number*
Tree	factor
Range	3 to 20
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive

Synopsis	Enable the **keepalive** context
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* keepalive
Tree	keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for keepalive
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* keepalive factor *number*

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Tree	factor
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time that LDP waits before tearing down session
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* keepalive timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

local-lsr-id

Synopsis	Enter the **local-lsr-id** context
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* local-lsr-id
Tree	local-lsr-id
Introduced	25.3.R2
Platforms	SAR Gen 2

format-32bit *boolean*

Synopsis	Use IPv4 address of local LSR-ID interface as LSR-ID of the LDP LSR
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* local-lsr-id format-32bit *boolean*
Tree	format-32bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *reference*

Synopsis	Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* local-lsr-id interface-name *reference*
Tree	interface-name
Reference	**configure** router *named-item-64* interface *interface-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

tunneling

Synopsis	Enable the **tunneling** context
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* tunneling
Tree	tunneling
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp [lsp-name] *named-item-64*

Synopsis	Add a list entry for **lsp**
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* tunneling lsp *named-item-64*
Tree	lsp
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lsp-name**] *named-item-64*

Synopsis	LSP name
Context	**configure** router *named-item-64* ldp targeted-session peer *(ipv4-address-no-zone | ipv6-address-no-zone)* tunneling lsp *named-item-64*
Tree	lsp

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String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-template [template-name] *named-item*

Synopsis	Enter the **peer-template** list instance
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item*
Tree	peer-template
Max. instances	500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**template-name**] *named-item*

Synopsis	Name for the targeted peer template
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item*
Tree	peer-template
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the peer template
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

adv-local-lsr-id *boolean*

Synopsis	Advertise local LSR ID over a specified LDP session
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* adv-local-lsr-id *boolean*
Tree	adv-local-lsr-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD tracking of T-LDP peer session
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, the router uses BFD to track the selected T-LDP session. By enabling BFD for a selected targeted session, the state of that session is tied to the state of the underneath BFD session between the two nodes. The command options used for the BFD are configured under the IP interface. When configured to **false**, the router does not use the central BFD session to track the T-LDP session operational state. On the 7705 SAR Gen 2, BFD is supported only for IPv4 T-LDP sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

community *policy-string*

Synopsis	Community string associated with a session to a specified peer
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* community *policy-string*
Tree	community
String length	1 to 32

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

hello

Synopsis	Enable the **hello** context
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* hello
Tree	hello
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Factor value for Hello
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* hello factor *number*
Tree	factor
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout value for Hello
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* hello timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-reduction

Synopsis	Enable the **hello-reduction** context

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Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* hello-reduction
Tree	hello-reduction
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of suppression of Hello messages
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* hello-reduction admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

factor *number*

Synopsis	Hello reduction dampening factor
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* hello-reduction factor *number*
Tree	factor
Range	3 to 20
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive

Synopsis	Enable the **keepalive** context
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* keepalive
Tree	keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

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factor *number*

Synopsis	Factor value for keepalive
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* keepalive factor *number*
Tree	factor
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time that LDP waits before tearing down session
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* keepalive timeout *number*
Tree	timeout
Range	3 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

local-lsr-id

Synopsis	Enter the **local-lsr-id** context
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* local-lsr-id
Tree	local-lsr-id
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *reference*

Synopsis	Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* local-lsr-id interface-name *reference*
Tree	interface-name

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Reference	**configure** router *named-item-64* interface *interface-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

tunneling *boolean*

Synopsis	Allow LDP over tunnels
Context	**configure** router *named-item-64* ldp targeted-session peer-template *named-item* tunneling *boolean*
Tree	tunneling
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-template-map [template-map-name] *reference*

Synopsis	Enter the **peer-template-map** list instance
Context	**configure** router *named-item-64* ldp targeted-session peer-template-map *reference*
Tree	peer-template-map
Max. instances	500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**template-map-name**] *reference*

Synopsis	Name to identify the targeted peer template
Context	**configure** router *named-item-64* ldp targeted-session peer-template-map *reference*
Tree	peer-template-map
Reference	**configure** router *named-item-64* ldp targeted-session peer-template *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-map *reference*

Synopsis	Targeted peer template to apply to the given policies
Context	**configure** router *named-item-64* ldp targeted-session peer-template-map *reference* policy-map *reference*
Tree	policy-map
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

resolve-v6-prefix-over-shortcut *boolean*

Synopsis	Resolve IPv6 prefix over IGP shortcuts
Context	**configure** router *named-item-64* ldp targeted-session resolve-v6-prefix-over-shortcut *boolean*
Tree	resolve-v6-prefix-over-shortcut
Description	When configured to **true**, the system enables the resolution of IPv6 LDP unicast prefix FECs over IGP shortcuts. When configured to **false**, the resolution is not allowed.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-auto-targeted-session *boolean*

Synopsis	Allow auto-creation of targeted sessions by SDP
Context	**configure** router *named-item-64* ldp targeted-session sdp-auto-targeted-session *boolean*
Tree	sdp-auto-targeted-session
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

tcp-session-parameters

Synopsis	Enter the **tcp-session-parameters** context
Context	**configure** router *named-item-64* ldp tcp-session-parameters
Tree	tcp-session-parameters
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key between LDP peers
Context	**configure** router *named-item-64* ldp tcp-session-parameters authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key used to establish a session between LDP peers. Authentication uses the MD-5 message-based digest. The peer address used in authentication must be the TCP session transport address. If one or more transport addresses used in the Hello adjacencies to the same peer LSR are different from the LSR ID value, the user must add each transport address to the authentication key configuration as a separate peer. As a result, when the TCP connection is bootstrapped by a specific Hello adjacency, the authentication can operate over that TCP connection by using its specific transport address. The per-peer authentication configuration takes precedence over global authentication configuration, and authentication keychain configuration takes precedence over authentication key configuration. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Authentication keychain to use for the TCP session

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Context	**configure** router *named-item-64* ldp tcp-session-parameters authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the authentication keychain to use for the TCP session. The per-peer authentication configuration takes precedence over the global authentication configuration.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-transport [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer-transport** list instance
Context	**configure** router *named-item-64* ldp tcp-session-parameters peer-transport *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-transport
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the TCP connection to the LDP peer
Context	**configure** router *named-item-64* ldp tcp-session-parameters peer-transport *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer-transport
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key between LDP peers
Context	**configure** router *named-item-64* ldp tcp-session-parameters peer-transport *(ipv4-address-no-zone | ipv6-address-no-zone)* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key used to establish a session between LDP peers.

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Authentication uses the MD-5 message-based digest. The peer address used in authentication must be the TCP session transport address. If one or more transport addresses used in the Hello adjacencies to the same peer LSR are different from the LSR ID value, the user must add each transport address to the authentication key configuration as a separate peer. As a result, when the TCP connection is bootstrapped by a specific Hello adjacency, the authentication can operate over that TCP connection by using its specific transport address.

The per-peer authentication configuration takes precedence over global authentication configuration, and authentication keychain configuration takes precedence over authentication key configuration.

This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 422

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-keychain *reference*

Synopsis Authentication keychain to use for the TCP session

Context **configure** router *named-item-64* ldp tcp-session-parameters peer-transport *(ipv4-address-no-zone | ipv6-address-no-zone)* authentication-keychain *reference*

Tree authentication-keychain

Description This command configures the authentication keychain to use for the TCP session.

The per-peer authentication configuration takes precedence over the global authentication configuration.

Reference **configure** system security keychains keychain *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

path-mtu-discovery *boolean*

Synopsis Allow Path MTU Discovery for associated TCP connections

Context **configure** router *named-item-64* ldp tcp-session-parameters peer-transport *(ipv4-address-no-zone | ipv6-address-no-zone)* path-mtu-discovery *boolean*

Tree path-mtu-discovery

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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ttl-security *number*

Synopsis	Minimum TTL value for incoming packets
Context	**configure** router *named-item-64* ldp tcp-session-parameters peer-transport *(ipv4-address-no-zone | ipv6-address-no-zone)* ttl-security *number*
Tree	ttl-security
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-down-damp-time *number*

Synopsis	Time interval for an LDP to damp a tunnel down event before posting to the Route Table Manager (RTM)
Context	**configure** router *named-item-64* ldp tunnel-down-damp-time *number*
Tree	tunnel-down-damp-time
Range	0 to 20
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-table-pref *number*

Synopsis	Tunnel table preference value for address FECs
Context	**configure** router *named-item-64* ldp tunnel-table-pref *number*
Tree	tunnel-table-pref
Description	This command configures the tunnel table preference for an LDP tunnel type. The tunnel table preference applies to next-hop resolution of BGP routes for: EVPN, IPv4, IPv6, VPN-IPv4, VPN-IPv6, label-IPv4, and label-IPV6 in the tunnel table. This feature does not apply to a VPRN, VPLS, or VLL service with explicit binding to an SDP that enabled the **mixed-lsp-mode** option. The service manager controls and fixes the tunnel preference in such an SDP. The tunnel table preference configuration does not modify the SDP behavior, nor the services that bind to it. It is recommended to not set two or more tunnel types to the same preference value. In such a situation, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.

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Range	1 to 255
Default	9
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Allow weighted ECMP load-balancing
Context	**configure** router *named-item-64* ldp weighted-ecmp *boolean*
Tree	weighted-ecmp
Description	When configured to **true**, the system allows weighted ECMP on LDP using RSVP LSPs or SR-TE LSPs. LDP labeled packets are sprayed across the RSVP or SR-TE LSP ECMP set in proportion to the configured load-balancing weight of LSPs. When configured to **false**, the system removes weighted ECMP load-balancing.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-export

Synopsis	Enter the **leak-export** context
Context	**configure** router *named-item-64* leak-export
Tree	leak-export
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-export-limit *number*

Synopsis	Maximum limit on number of GRT routes leaked into VPRNs
Context	**configure** router *named-item-64* leak-export leak-export-limit *number*
Tree	leak-export-limit
Range	1 to 10000
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-name *(policy-expr-string | string)*

Synopsis	Route policy name
Context	**configure** router *named-item-64* leak-export policy-name *(policy-expr-string | string)*
Tree	policy-name
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-bfd

Synopsis	Enter the **lsp-bfd** context
Context	**configure** router *named-item-64* lsp-bfd
Tree	lsp-bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-sessions *number*

Synopsis	Maximum number of LSP BFD session tail-ends
Context	**configure** router *named-item-64* lsp-bfd bfd-sessions *number*
Tree	bfd-sessions
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

tail-end

Synopsis	Enter the **tail-end** context
Context	**configure** router *named-item-64* lsp-bfd tail-end
Tree	tail-end

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Introduced	25.10.R1
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Missed message threshold before session is set to down
Context	**configure** router *named-item-64* lsp-bfd tail-end multiplier *number*
Tree	multiplier
Range	1 to 20
Default	3
Introduced	25.10.R1
Platforms	SAR Gen 2

receive-interval *number*

Synopsis	BFD receive interval for LSP tail-end
Context	**configure** router *named-item-64* lsp-bfd tail-end receive-interval *number*
Tree	receive-interval
Range	100 to 1000
Units	milliseconds
Default	1000
Introduced	25.10.R1
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval for LSP tail-end
Context	**configure** router *named-item-64* lsp-bfd tail-end transmit-interval *number*
Tree	transmit-interval
Range	100 to 1000
Units	milliseconds
Default	1000
Introduced	25.10.R1
Platforms	SAR Gen 2

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mc-maximum-routes

Synopsis	Enter the **mc-maximum-routes** context
Context	**configure** router *named-item-64* mc-maximum-routes
Tree	mc-maximum-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Log and allow learning of new multicast routes
Context	**configure** router *named-item-64* mc-maximum-routes log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Maximum multicast routes which the VRF holds
Context	**configure** router *named-item-64* mc-maximum-routes threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Maximum multicast routes configured on virtual router
Context	**configure** router *named-item-64* mc-maximum-routes value *number*
Tree	value
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

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mld

Synopsis	Enable the **mld** context
Context	**configure** router *named-item-64* mld
Tree	mld
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of MLD
Context	**configure** router *named-item-64* mld admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-if-query-source-address *ipv6-unicast-or-linklocal-address*

Synopsis	Source address in queries for group interfaces when not configured at group interface level
Context	**configure** router *named-item-64* mld group-if-query-source-address *ipv6-unicast-or-linklocal-address*
Tree	group-if-query-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* mld interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** router *named-item-64* mld interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MLD interface
Context	**configure** router *named-item-64* mld interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy to filter MLD packets
Context	**configure** router *named-item-64* mld interface *interface-name* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-group-sources *number*

Synopsis	Maximum number of group sources for this interface
Context	**configure** router *named-item-64* mld interface *interface-name* maximum-number-group-sources *number*
Tree	maximum-number-group-sources

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Description	This command configures the maximum number of group sources for which IGMP or MLD can have local receiver information based on received IGMP or MLD reports on this interface. When this configuration is changed dynamically to a lower value than the currently accepted number of group sources, the group sources that are already accepted are not deleted. Only new group sources are not allowed.
Range	1 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum number of groups for this interface
Context	**configure** router *named-item-64* mld interface *interface-name* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum number of sources that are allowed per group
Context	**configure** router *named-item-64* mld interface *interface-name* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** router *named-item-64* mld interface *interface-name* query-interval *number*
Tree	query-interval
Range	2 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** router *named-item-64* mld interface *interface-name* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** router *named-item-64* mld interface *interface-name* query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable router alert checking for IGMP or MLD messages
Context	**configure** router *named-item-64* mld interface *interface-name* router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** router *named-item-64* mld interface *interface-name* ssm-translate
Tree	ssm-translate
Introduced	25.3.R2

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Platforms	SAR Gen 2

group-range start *ipv6-multicast-address* end *ipv6-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** router *named-item-64* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv6-multicast-address*

Synopsis	Lower bound of the group range
Context	**configure** router *named-item-64* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv6-multicast-address*

Synopsis	Upper bound of the group range
Context	**configure** router *named-item-64* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*

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Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** router *named-item-64* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** router *named-item-64* mld interface *interface-name* static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv6-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** router *named-item-64* mld interface *interface-name* static group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**group-address**] *ipv6-multicast-address*

Synopsis	Group address of multicast channel
Context	**configure** router *named-item-64* mld interface *interface-name* static group *ipv6-multicast-address*
Tree	group
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* mld interface *interface-name* static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** router *named-item-64* mld interface *interface-name* static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** router *named-item-64* mld interface *interface-name* static group *ipv6-multicast-address* starg
Tree	starg

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Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv6-multicast-address*

Synopsis	Lower bound of the static multicast group
Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv6-multicast-address*

Synopsis	Upper bound of the static multicast group
Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

step *ipv6-address*

Synopsis	Step interval for the group-range addresses

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Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
MD-CLI default	::1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** router *named-item-64* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address* starg
Tree	starg

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Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	MLD protocol version
Context	**configure** router *named-item-64* mld interface *interface-name* version *keyword*
Tree	version
Options	1, 2
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** router *named-item-64* mld query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** router *named-item-64* mld query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Units	seconds
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** router *named-item-64* mld query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** router *named-item-64* mld robust-count *number*
Tree	robust-count
Range	2 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** router *named-item-64* mld ssm-translate
Tree	ssm-translate
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv6-multicast-address* end *ipv6-multicast-address*

Synopsis	Enter the **group-range** list instance

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Context	**configure** router *named-item-64* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv6-multicast-address*

Synopsis	Lower bound of the group range
Context	**configure** router *named-item-64* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv6-multicast-address*

Synopsis	Upper bound of the group range
Context	**configure** router *named-item-64* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** router *named-item-64* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** router *named-item-64* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls

Synopsis	Enable the **mpls** context
Context	**configure** router *named-item-64* mpls
Tree	mpls
Description	Commands in this context configure MPLS.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group-frr *boolean*

Synopsis	Use admin group constraints for FRR path computation
Context	**configure** router *named-item-64* mpls admin-group-frr *boolean*
Tree	admin-group-frr
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MPLS instance
Context	**configure** router *named-item-64* mpls admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

auto-bandwidth-multipliers

Synopsis	Enter the **auto-bandwidth-multipliers** context
Context	**configure** router *named-item-64* mpls auto-bandwidth-multipliers
Tree	auto-bandwidth-multipliers
Description	Commands in this context configure the multipliers for the auto-bandwidth adjustment.
Introduced	25.3.R2
Platforms	SAR Gen 2

adjust-multiplier *number*

Synopsis	Collection intervals in an adjust interval
Context	**configure** router *named-item-64* mpls auto-bandwidth-multipliers adjust-multiplier *number*
Tree	adjust-multiplier
Range	1 to 16383
Default	288
Introduced	25.3.R2
Platforms	SAR Gen 2

sample-multiplier *number*

Synopsis	Collection intervals in a sample interval
Context	**configure** router *named-item-64* mpls auto-bandwidth-multipliers sample-multiplier *number*
Tree	sample-multiplier
Range	1 to 511
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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auto-lsp [template-name] *reference*

Synopsis	Enter the **auto-lsp** list instance
Context	**configure** router *named-item-64* mpls auto-lsp *reference*
Tree	auto-lsp
Max. instances	500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**template-name**] *reference*

Synopsis	LSP template name
Context	**configure** router *named-item-64* mpls auto-lsp *reference*
Tree	auto-lsp
Reference	**configure** router *named-item-64* mpls lsp-template *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

one-hop *boolean*

Synopsis	Enable one-hop point-to-point LSP automatic signaling
Context	**configure** router *named-item-64* mpls auto-lsp *reference* one-hop *boolean*
Tree	one-hop
Description	This command enables the automatic signaling of one-hop point-to-point LSPs.
Default	false
Notes	The following elements are part of a choice: **one-hop** or **policy**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	Peer prefix policy name
Context	**configure** router *named-item-64* mpls auto-lsp *reference* policy *reference*

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Tree	policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	The following elements are part of a choice: **one-hop** or **policy**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

bypass-resignal-timer *number*

Synopsis	Resignal timer for bypass
Context	**configure** router *named-item-64* mpls bypass-resignal-timer *number*
Tree	bypass-resignal-timer
Range	1 to 10080
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

cspf-on-loose-hop *boolean*

Synopsis	Calculate CSPF until next loose hop on LSR
Context	**configure** router *named-item-64* mpls cspf-on-loose-hop *boolean*
Tree	cspf-on-loose-hop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-bypass *boolean*

Synopsis	Create dynamic bypass LSPs in FRR
Context	**configure** router *named-item-64* mpls dynamic-bypass *boolean*
Tree	dynamic-bypass
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

entropy-label

Synopsis	Enter the **entropy-label** context
Context	**configure** router *named-item-64* mpls entropy-label
Tree	entropy-label
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-te *boolean*

Synopsis	Apply entropy labels to RSVP-TE LSPs
Context	**configure** router *named-item-64* mpls entropy-label rsvp-te *boolean*
Tree	rsvp-te
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *boolean*

Synopsis	Apply entropy labels to SR-TE LSPs
Context	**configure** router *named-item-64* mpls entropy-label sr-te *boolean*
Tree	sr-te
Introduced	25.3.R2
Platforms	SAR Gen 2

exponential-backoff-retry *boolean*

Synopsis	Use exponential back-off timer when retrying an LSP
Context	**configure** router *named-item-64* mpls exponential-backoff-retry *boolean*
Tree	exponential-backoff-retry
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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forwarding-policies

Synopsis	Enable the **forwarding-policies** context
Context	**configure** router *named-item-64* mpls forwarding-policies
Tree	forwarding-policies
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of MPLS forwarding policies
Context	**configure** router *named-item-64* mpls forwarding-policies admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

forwarding-policy [policy-name] *named-item-64*

Synopsis	Enter the **forwarding-policy** list instance
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64*
Tree	forwarding-policy
Max. instances	65536
Introduced	25.3.R2
Platforms	SAR Gen 2

[policy-name] *named-item-64*

Synopsis	Forwarding policy name
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64*
Tree	forwarding-policy
String length	1 to 64

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String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MPLS forwarding policy
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

binding-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Binding label
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* binding-label *number*
Tree	binding-label
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-statistics

Synopsis	Enable the **egress-statistics** context
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* egress-statistics
Tree	egress-statistics
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of egress or ingress statistics
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* egress-statistics admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress-statistics

Synopsis	Enable the **ingress-statistics** context
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* ingress-statistics
Tree	ingress-statistics
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of egress or ingress statistics
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* ingress-statistics admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Metric of an MPLS forwarding policy

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Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* metric *number*
Tree	metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-group [index] *number*

Synopsis	Enter the **next-hop-group** list instance
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number*
Tree	next-hop-group
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index for next hop group
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number*
Tree	next-hop-group
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of NHG in MPLS forwarding policy
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-next-hop

Synopsis	Enable the **backup-next-hop** context
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* backup-next-hop
Tree	backup-next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next hop address
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* backup-next-hop next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

pushed-labels [index] *number*

Synopsis	Enter the **pushed-labels** list instance
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* backup-next-hop pushed-labels *number*
Tree	pushed-labels
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index for push label

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Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* backup-next-hop pushed-labels *number*
Tree	pushed-labels
Range	1 to 10
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* backup-next-hop pushed-labels *number* label *number*
Tree	label
Range	1 to 1048575
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-next-hop

Synopsis	Enable the **primary-next-hop** context
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* primary-next-hop
Tree	primary-next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next hop address
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* primary-next-hop next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Introduced	25.3.R2

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Platforms	SAR Gen 2

pushed-labels [index] *number*

Synopsis	Enter the **pushed-labels** list instance
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* primary-next-hop pushed-labels *number*
Tree	pushed-labels
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index for push label
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* primary-next-hop pushed-labels *number*
Tree	pushed-labels
Range	1 to 10
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* primary-next-hop pushed-labels *number* label *number*
Tree	label
Range	1 to 1048575
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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resolution-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Resolution type for next hop group
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* next-hop-group *number* resolution-type *keyword*
Tree	resolution-type
Options	direct, indirect
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Preference number
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* preference *number*
Tree	preference
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-timer *number*

Synopsis	Revert timer
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* revert-timer *number*
Tree	revert-timer
Range	1 to 600

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Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-table-pref *number*

Synopsis	Tunnel table preference
Context	**configure** router *named-item-64* mpls forwarding-policies forwarding-policy *named-item-64* tunnel-table-pref *number*
Tree	tunnel-table-pref
Description	This command configures the TTM preference value of an MPLS forwarding policy. It is used by applications to select one tunnel type to bind to in TTM when multiple tunnel types are enabled for the application. It is recommended to not set two or more tunnel types to the same preference value. In such a situation, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

reserved-label-block *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Reserved label block
Context	**configure** router *named-item-64* mpls forwarding-policies reserved-label-block *reference*
Tree	reserved-label-block
Reference	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

frr-object *boolean*

Synopsis	Signal with fast reroute object

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Context	**configure** router *named-item-64* mpls frr-object *boolean*
Tree	frr-object
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-timer *number*

Synopsis	Hold timer value
Context	**configure** router *named-item-64* mpls hold-timer *number*
Tree	hold-timer
Range	0 to 1000
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *reference*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* mpls interface *reference*
Tree	interface
Description	Commands in this context configure the attributes for MPLS protocol support on an IP interface. MPLS commands are not executed on an IP interface where MPLS is not enabled. An MPLS interface must be explicitly enabled (admin-state enabled). The MPLS interface must be admin-state disabled to delete the interface definition. A corresponding RSVP interface must also be configured. The MPLS interface cannot be deleted without also deleting the RSVP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Router interface name
Context	**configure** router *named-item-64* mpls interface *reference*

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Tree	interface
Reference	**configure** router *named-item-64* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group *reference*

Synopsis	Administrative groups supported by the interface
Context	**configure** router *named-item-64* mpls interface *reference* admin-group *reference*
Tree	admin-group
Description	This command specifies the administrative groups that the interface supports. This information is advertised as part of OSPF and IS-IS to help CSPF compute constrained LSPs that must include or exclude certain administrative groups. An MPLS interface is assumed to belong to all the administrative groups unless this command is issued under the interface configuration. With this command configured, the interface is assumed to belong to only the groups specifically configured in this command. Only the administrative groups bound to an MPLS interface are advertised in TE link TLVs and sub-TLVs when the **traffic-engineering** option is enabled in IS-IS or OSPF. IES and VPRN interfaces do not have their attributes advertised in TE TLVs.
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MPLS interface
Context	**configure** router *named-item-64* mpls interface *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-map [in-label] *number*

Synopsis	Enter the **label-map** list instance
Context	**configure** router *named-item-64* mpls interface *reference* label-map *number*
Tree	label-map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**in-label**] *number*

Synopsis	Match the incoming MPLS label
Context	**configure** router *named-item-64* mpls interface *reference* label-map *number*
Tree	label-map
Range	32 to 1048575
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the label map
Context	**configure** router *named-item-64* mpls interface *reference* label-map *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

pop

WARNING:
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WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Pop (remove) the incoming label and forward packet based on service header
Context	**configure** router *named-item-64* mpls interface *reference* label-map *number* pop
Tree	pop
Notes	The following elements are part of a choice: **pop** or **swap**.
Introduced	25.3.R2
Platforms	SAR Gen 2

swap

Synopsis	Enable the **swap** context
Context	**configure** router *named-item-64* mpls interface *reference* label-map *number* swap
Tree	swap
Notes	The following elements are part of a choice: **pop** or **swap**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *ipv4-unicast-address*

Synopsis	IP address for the next hop
Context	**configure** router *named-item-64* mpls interface *reference* label-map *number* swap next-hop *ipv4-unicast-address*
Tree	next-hop
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

out-label *(number | keyword)*

Synopsis	Push specific label onto the top of the outgoing packet's label stack

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Context	**configure** router *named-item-64* mpls interface *reference* label-map *number* swap out-label *(number | keyword)*
Tree	out-label
Range	16 to 1048575
Options	implicit-null-label
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg-group [name] *reference*

Synopsis	Add a list entry for **srlg-group**
Context	**configure** router *named-item-64* mpls interface *reference* srlg-group *reference*
Tree	srlg-group
Max. instances	64
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Shared Risk Link Group (SRLG) name
Context	**configure** router *named-item-64* mpls interface *reference* srlg-group *reference*
Tree	srlg-group
Reference	**configure** routing-options if-attribute srlg-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

te-metric *number*

Synopsis	TE metric for the interface
Context	**configure** router *named-item-64* mpls interface *reference* te-metric *number*
Tree	te-metric
Range	1 to 16777215

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Introduced	25.3.R2
Platforms	SAR Gen 2

least-fill-min-thd *number*

Synopsis	Percentage of the least fill minimum threshold value
Context	**configure** router *named-item-64* mpls least-fill-min-thd *number*
Tree	least-fill-min-thd
Range	0 to 100
Units	percent
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

least-fill-reoptim-thd *number*

Synopsis	Percentage of the least fill reoptimization threshold value
Context	**configure** router *named-item-64* mpls least-fill-reoptim-thd *number*
Tree	least-fill-reoptim-thd
Range	0 to 100
Units	percent
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

logger-event-bundling *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Merge and bundle MPLS traps
Context	**configure** router *named-item-64* mpls logger-event-bundling *boolean*
Tree	logger-event-bundling
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

lsp [lsp-name] *named-item-64*

Synopsis	Enter the **lsp** list instance
Context	**configure** router *named-item-64* mpls lsp *named-item-64*
Tree	lsp
Description	Commands in this context create or configure an LSP that is either signaled dynamically by the router, or is a statically provisioned MPLS-TP LSP. Use the **to** command to specify the egress router. At least one **primary** or **secondary** path (for signaled LSPs or at least one working path for MPL-TP LSPs) must be specified when the LSP is created. All other statements under the LSP hierarchy are optional.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lsp-name**] *named-item-64*

Synopsis	Labeled Switch path name
Context	**configure** router *named-item-64* mpls lsp *named-item-64*
Tree	lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptive *boolean*

Synopsis	Enable make-before-break functionality
Context	**configure** router *named-item-64* mpls lsp *named-item-64* adaptive *boolean*
Tree	adaptive
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tag [name] *reference*

Synopsis	Add a list entry for **admin-tag**
Context	**configure** router *named-item-64* mpls lsp *named-item-64* admin-tag *reference*
Tree	admin-tag
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Name of the admin tags
Context	**configure** router *named-item-64* mpls lsp *named-item-64* admin-tag *reference*
Tree	admin-tag
Reference	**configure** routing-options admin-tags admin-tag *string*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adspec *boolean*

Synopsis	Include ADSPEC object in RSVP messages
Context	**configure** router *named-item-64* mpls lsp *named-item-64* adspec *boolean*
Tree	adspec

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bfd
Tree	bfd
Description	Commands in this context configure BFD on LSPs. These commands apply to BFD on RSVP LSPs.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD on the LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bfd bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, the system enables LSP BFD on the LSP. LSP BFD must also be configured under the **configure router** context. The named BFD template provides the configuration settings for the BFD session, which must be configured and associated with the service using the BFD template. When configured to **false**, the system disables LSP BFD on the LSP. This command applies to BFD on RSVP LSPs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-template *reference*

Synopsis	BFD template to be used by LSP BFD sessions
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bfd bfd-template *reference*
Tree	bfd-template
Reference	**configure** bfd bfd-template *named-item*

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Introduced	25.3.R2
Platforms	SAR Gen 2

failure-action *keyword*

Synopsis	Action when LSP BFD fails
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bfd failure-action *keyword*
Tree	failure-action
Description	This command specifies the action when LSP BFD fails on a LSP. Regardless of the failure action specified, when the BFD session goes down on the LSP, the system generates an SNMP trap.
Options	none, down, failover, failover-or-down
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ping-interval *(number | keyword)*

Synopsis	Interval for periodic LSP ping for BFD bootstrapping
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bfd lsp-ping-interval *(number | keyword)*
Tree	lsp-ping-interval
Range	60 to 300
Units	seconds
Options	none
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

wait-for-up-timer *number*

Synopsis	Time to wait for BFD to become operationally available
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bfd wait-for-up-timer *number*
Tree	wait-for-up-timer
Description	This command configures the time to wait for BFD to become operationally up. For RSVP-TE LSPs, the timer controls the following:

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- a path undergoing MBB when BFD is up
- the initial administrative state of the LSP
- the retry signaling of non-standby secondary paths

Range	1 to 60
Units	seconds
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-shortcut *boolean*

Synopsis	Include LSP for BGP routes
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bgp-shortcut *boolean*
Tree	bgp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-transport-tunnel *boolean*

Synopsis	Include LSP as transport LSP for labeled BGP routes
Context	**configure** router *named-item-64* mpls lsp *named-item-64* bgp-transport-tunnel *boolean*
Tree	bgp-transport-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

binding-sid *number*

Synopsis	Binding SID for the LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* binding-sid *number*
Tree	binding-sid
Description	This command binds a label to the LSP. The label value must belong to the reserved label block that is configured with the **configure router mpls lsp-bsid-block** command.
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

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class-type *number*

Synopsis	Class type for an LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* class-type *number*
Tree	class-type
Range	0 to 7
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label *keyword*

Synopsis	Entropy label
Context	**configure** router *named-item-64* mpls lsp *named-item-64* entropy-label *keyword*
Tree	entropy-label
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-admin-group *reference*

Synopsis	Name of admin group excluded when LSP is set up
Context	**configure** router *named-item-64* mpls lsp *named-item-64* exclude-admin-group *reference*
Tree	exclude-admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-node *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Exclude Routers object to be included in the bypass path message
Context	**configure** router *named-item-64* mpls lsp *named-item-64* exclude-node *(ipv4-address-no-zone | ipv6-address-no-zone)*

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Tree	exclude-node
Introduced	25.3.R2
Platforms	SAR Gen 2

fallback-path-computation-method *keyword*

Synopsis	Fallback path computation method
Context	**configure** router *named-item-64* mpls lsp *named-item-64* fallback-path-computation-method *keyword*
Tree	fallback-path-computation-method
Description	This command specifies the fallback path computation method used if all configured PCEs are down or are signaling overload and the redelegation timer has expired. This method is used regardless of whether the LSP is PCE-controlled and PCE-computed, or only PCE-computed.
Options	none, local-cspf
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-reroute

Synopsis	Enable the **fast-reroute** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* fast-reroute
Tree	fast-reroute
Introduced	25.3.R2
Platforms	SAR Gen 2

frr-method *keyword*

Synopsis	Fast Reroute method
Context	**configure** router *named-item-64* mpls lsp *named-item-64* fast-reroute frr-method *keyword*
Tree	frr-method
Options	one-to-one, facility
Introduced	25.3.R2
Platforms	SAR Gen 2

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hop-limit *number*

Synopsis	Total number of hops a detour or backup LSP can take
Context	**configure** router *named-item-64* mpls lsp *named-item-64* fast-reroute hop-limit *number*
Tree	hop-limit
Range	0 to 255
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

node-protect *boolean*

Synopsis	Enable node and link protection for the specified LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* fast-reroute node-protect *boolean*
Tree	node-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-admin-group *boolean*

Synopsis	Enable admin group constraints on a FRR backup LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* fast-reroute propagate-admin-group *boolean*
Tree	propagate-admin-group
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

from *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
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Synopsis	Source IP address of this LSP

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Context	**configure** router *named-item-64* mpls lsp *named-item-64* from *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	from
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit *number*

Synopsis	Maximum number of hops that an LSP can traverse including ingress and egress routers
Context	**configure** router *named-item-64* mpls lsp *named-item-64* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-shortcut

Synopsis	Enter the **igp-shortcut** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* igp-shortcut
Tree	igp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of LSP for shortcut or forwarding
Context	**configure** router *named-item-64* mpls lsp *named-item-64* igp-shortcut admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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allow-sr-over-srte *boolean*

Synopsis	Use as eligible SRv4 or SRv6 IGP shortcut
Context	**configure** router *named-item-64* mpls lsp *named-item-64* igp-shortcut allow-sr-over-srte *boolean*
Tree	allow-sr-over-srte
Description	When configured to **true**, the router performs the local SPF and the SR-TE LSP is used as an eligible IGP SR-MPLS shortcut for SR-MPLS SRv4 or SRv6 only if the SR-TE is explicitly allowed using this command when the top SID in the SR-TE LSP is an adjacency SID.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lfa-type *keyword*

Synopsis	LSP usage in LFA SPF
Context	**configure** router *named-item-64* mpls lsp *named-item-64* igp-shortcut lfa-type *keyword*
Tree	lfa-type
Options	lfa-protect, lfa-only
Notes	The following elements are part of a choice: **lfa-type** or **relative-metric**.
Introduced	25.3.R2
Platforms	SAR Gen 2

relative-metric *number*

Synopsis	Shortest IGP cost between the endpoints of the LSP plus the configured offset
Context	**configure** router *named-item-64* mpls lsp *named-item-64* igp-shortcut relative-metric *number*
Tree	relative-metric
Range	-10 to 10
Notes	The following elements are part of a choice: **lfa-type** or **relative-metric**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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include-admin-group *reference*

Synopsis	Admin group name included when LSP is set up
Context	**configure** router *named-item-64* mpls lsp *named-item-64* include-admin-group *reference*
Tree	include-admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

label-stack-reduction *boolean*

Synopsis	Enable label compression for LSP path
Context	**configure** router *named-item-64* mpls lsp *named-item-64* label-stack-reduction *boolean*
Tree	label-stack-reduction
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-over-rsvp *boolean*

Synopsis	Include this LSP in LDP over RSVP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* ldp-over-rsvp *boolean*
Tree	ldp-over-rsvp
Introduced	25.3.R2
Platforms	SAR Gen 2

least-fill *boolean*

Synopsis	Enable least-fill path selection for this LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* least-fill *boolean*
Tree	least-fill
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load balancing weight for an MPLS LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

local-sr-protection *keyword*

Synopsis	Local SR protection preference for LSP path computation
Context	**configure** router *named-item-64* mpls lsp *named-item-64* local-sr-protection *keyword*
Tree	local-sr-protection
Options	none, preferred, mandatory
Default	preferred
Introduced	25.3.R2
Platforms	SAR Gen 2

main-ct-retry-limit *number*

Synopsis	Maximum number of retries before reverting to backup CT
Context	**configure** router *named-item-64* mpls lsp *named-item-64* main-ct-retry-limit *number*
Tree	main-ct-retry-limit
Range	1 to 10000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sr-labels

Synopsis	Enter the **max-sr-labels** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* max-sr-labels

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Tree	max-sr-labels
Introduced	25.3.R2
Platforms	SAR Gen 2

additional-frr-labels *number*

Synopsis	Value for the maximum additional overhead labels
Context	**configure** router *named-item-64* mpls lsp *named-item-64* max-sr-labels additional-frr-labels *number*
Tree	additional-frr-labels
Range	0 to 4
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

label-stack-size *number*

Synopsis	Maximum label stack size
Context	**configure** router *named-item-64* mpls lsp *named-item-64* max-sr-labels label-stack-size *number*
Tree	label-stack-size
Description	This command configures the maximum label stack size of the primary path of the SR-TE LSP.
Range	1 to 11
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	LSP metric that forces to a constant value
Context	**configure** router *named-item-64* mpls lsp *named-item-64* metric *number*
Tree	metric
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-type *keyword*

Synopsis	Metric type used for LSP path computation
Context	**configure** router *named-item-64* mpls lsp *named-item-64* metric-type *keyword*
Tree	metric-type
Options	igp, te, delay
Default	igp
Introduced	25.3.R2
Platforms	SAR Gen 2

override-tunnel-elc *boolean*

Synopsis	Override any received entropy label capability
Context	**configure** router *named-item-64* mpls lsp *named-item-64* override-tunnel-elc *boolean*
Tree	override-tunnel-elc
Description	When configured to **true**, this command allows the system to override any received entropy label capability advertisement. When configured to **false**, this command disables the override.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

path-computation-method *keyword*

Synopsis	Path computation method
Context	**configure** router *named-item-64* mpls lsp *named-item-64* path-computation-method *keyword*
Tree	path-computation-method
Description	This command configures the path computation method of an RSVP-TE or SR-TE LSP. If this command is not configured to one of the supported options, the default path computation method is used depending on the type of LSP; the hop-to-label translation is used for the SR-TE LSP template and the IGP-based path is used for the RSVP-TE-LSP. See "SR-TE LSP path computation using hop-to-label translation" in the *7705 SAR Gen 2 Segment Routing and PCE User Guide* for more information.
Options	local-cspf, pce

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Introduced	25.3.R2
Platforms	SAR Gen 2

path-profile [profile-id] *number*

Synopsis	Enter the **path-profile** list instance
Context	**configure** router *named-item-64* mpls lsp *named-item-64* path-profile *number*
Tree	path-profile
Description	Commands in this context configure the attributes of the PCE path profile.
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**profile-id**] *number*

Synopsis	Profile ID for the specified LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* path-profile *number*
Tree	path-profile
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

path-group *number*

Synopsis	Path-group ID for the specified LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* path-profile *number* path-group *number*
Tree	path-group
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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pce-associations

Synopsis	Enter the **pce-associations** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-associations
Tree	pce-associations
Description	Commands in this context configure the LSP binding with one or more PCEP associations.
Introduced	25.3.R2
Platforms	SAR Gen 2

diversity [diversity-name] *reference*

Synopsis	Add a list entry for **diversity**
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-associations diversity *reference*
Tree	diversity
Description	Commands in this context bind the LSP to a named diversity association. The diversity association must exist under the PCC.
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**diversity-name**] *reference*

Synopsis	Name of the PCE association configured under the PCC
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-associations diversity *reference*
Tree	diversity
Reference	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy [policy-name] *reference*

Synopsis	Add a list entry for **policy**
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-associations policy *reference*
Tree	policy
Description	Commands in this context bind the LSP to a named policy association. The policy association name must exist under the PCC.
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *reference*

Synopsis	Name of the PCE association configured under the PCC
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-associations policy *reference*
Tree	policy
Reference	**configure** router *named-item-64* pcep pcc pce-associations policy *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

pce-control *boolean*

Synopsis	Enable PCE controlled LSP mode of operation
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-control *boolean*
Tree	pce-control
Description	When configured to **true**, this command enables a PCE-controlled mode of operation for the LSP. In this mode, the router delegates full control of the LSP to the PCE (PCE controlled). The PCE acts in stateful-active mode for this LSP and is able to reroute the path following a failure or to re-optimize the path and update the router without a request from the router. When configured to **false**, the PCE-controlled mode of operation for the LSP has no effect.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

pce-report *keyword*

Synopsis	Global configuration of reporting to PCE to override
Context	**configure** router *named-item-64* mpls lsp *named-item-64* pce-report *keyword*
Tree	pce-report
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

primary [path-name] *reference*

Synopsis	Enter the **primary** list instance
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference*
Tree	primary
Description	Commands in this context configure a preferred path for the LSP. This command is optional only if the secondary path name is included in the LSP definition. Only one primary path can be defined for an LSP. Some attributes of the LSP, such as the bandwidth and hop-limit can be optionally specified as the attributes of the primary path. The attributes specified in this command override the LSP attributes.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**path-name**] *reference*

Synopsis	Path name
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference*
Tree	primary
Reference	**configure** router *named-item-64* mpls path *named-item-64*
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

adaptive *boolean*

Synopsis	Enable make-before-break functionality
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* adaptive *boolean*
Tree	adaptive
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LSP path
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-class-type *number*

Synopsis	Class-type for the LSP or LSP path
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* backup-class-type *number*
Tree	backup-class-type
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	Amount of bandwidth to be reserved

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Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* bandwidth *number*
Tree	bandwidth
Range	0 to 6400000
Units	megabps
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* bfd
Tree	bfd
Description	Commands in this context configure BFD on RSVP LSPs or Seamless BFD (S-BFD) on SR-TE LSPs.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD on the RSVP LSP or S-BFD on the SR-TE LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* bfd bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, LSP BFD is enabled on the RSVP LSP or S-BFD is enabled for the SR-TE LSP. LSP BFD must also be configured under the **configure router** context. The named BFD template provides the configuration settings for the BFD session, which must be configured and associated with the service using the BFD template. When configured to **false**, LSP BFD is disabled on the RSVP LSP or S-BFD on the SR-TE LSP.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-template *reference*

Synopsis	BFD template to be used by LSP BFD sessions
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* bfd bfd-template *reference*
Tree	bfd-template
Reference	**configure** bfd bfd-template *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ping-interval *(number | keyword)*

Synopsis	Interval for periodic LSP ping for BFD bootstrapping
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* bfd lsp-ping-interval *(number | keyword)*
Tree	lsp-ping-interval
Range	60 to 300
Units	seconds
Options	none
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

wait-for-up-timer *number*

Synopsis	Time to wait for BFD to become operationally available
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* bfd wait-for-up-timer *number*
Tree	wait-for-up-timer
Description	This command configures the time to wait for BFD to become operationally up. The timer is applicable to SR-TE LSPs, including auto LSPs and PCE-initiated LSPS, as well RSVP-TE LSPs. For SR-TE LSPs, the timer takes effect when BFD is first enabled on a path or when BFD transitions from up to down. Upon expiration, if BFD is not up, the path is torn down, removed from the TTM and the IOM, and the system starts the retry timer. For RSVP-TE LSPs, the timer controls the following: • a path undergoing MBB when BFD is up

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- the initial administrative state of the LSP
- the retry signaling of non-standby secondary paths

Range	1 to 60
Units	seconds
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type *number*

Synopsis	Class-type
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* class-type *number*
Tree	class-type
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-metric-limit *number*

Synopsis	Delay metric limit
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* delay-metric-limit *number*
Tree	delay-metric-limit
Description	This command configures the upper limit of the delay metric used by the local CSPF in the LSP path computation. The computation uses this configuration value only if the metric type is configured to **delay** in the **configure router mpls lsp metric-type** context. If the configured metric type is **delay** and this command is not configured, the computation selects the lowest latency path.
Range	1 to 16777215
Units	microseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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exclude-admin-group

Synopsis	Enable the **exclude-admin-group** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* exclude-admin-group
Tree	exclude-admin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group *reference*

Synopsis	Groups to exclude when the LSP path is setup
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* exclude-admin-group group *reference*
Tree	group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit *number*

Synopsis	Total number of hops that an LSP traverses
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

include-admin-group

Synopsis	Enable the **include-admin-group** context

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Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* include-admin-group
Tree	include-admin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group *reference*

Synopsis	Groups that are included when LSP path is setup
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* include-admin-group group *reference*
Tree	group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* priority
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-priority *number*

Synopsis	Priority of an LSP session at preemption action
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* priority hold-priority *number*
Tree	hold-priority
Range	0 to 7
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

setup-priority *number*

Synopsis	Priority when insufficient bandwidth for LSP setup
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* priority setup-priority *number*
Tree	setup-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

record *boolean*

Synopsis	Enable recording of all hops that an LSP path traverses
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* record *boolean*
Tree	record
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

record-label *boolean*

Synopsis	Enable recording of labels at each node or instance
Context	**configure** router *named-item-64* mpls lsp *named-item-64* primary *reference* record-label *boolean*
Tree	record-label
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-admin-group *boolean*

Synopsis	Enable admin groups via session attribute object
Context	**configure** router *named-item-64* mpls lsp *named-item-64* propagate-admin-group *boolean*
Tree	propagate-admin-group
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-limit *number*

Synopsis	Number of attempts to re-establish LSP after it fails
Context	**configure** router *named-item-64* mpls lsp *named-item-64* retry-limit *number*
Tree	retry-limit
Range	1 to 10000
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timer *number*

Synopsis	Time for LSP re-establishment attempts after failure
Context	**configure** router *named-item-64* mpls lsp *named-item-64* retry-timer *number*
Tree	retry-timer
Range	1 to 600
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-timer *number*

Synopsis	Revert timer for the LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* revert-timer *number*
Tree	revert-timer

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Range	1 to 4320
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-resv-style *keyword*

Synopsis	Reservation style for RSVP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* rsvp-resv-style *keyword*
Tree	rsvp-resv-style
Options	se, ff
Default	se
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary [path-name] *reference*

Synopsis	Enter the **secondary** list instance
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference*
Tree	secondary
Description	Commands in this context configure an alternative path that the LSP uses if the primary path is not available. This command is optional and is not required when the **configure router mpls lsp primary** command is specified. After the switchover from the primary to the secondary, the system continuously tries to revert to the primary path. The switch back to the primary path is based on the retry-timer interval. The system does not switch among secondary paths. The system starts the signaling (RSVP-TE) or programming (SR-TE) of all non-standby secondary paths at the same time. Retry counters are maintained for each unsuccessful attempt. After the retry limit is reached on a path, the system does not attempt to signal the path and administratively disables the path. The first successfully established non-standby secondary path is made the active path for the LSP. For RSVP-TE LSPs, up to eight secondary paths can be specified (or seven if a primary is configured). For SR-TE LSPs, up to three paths of any type (with a maximum of one primary) can be configured. By default, a secondary path is non-standby unless the **standby** keyword is configured. All non-standby secondary paths are considered equal, and the first available path is used.
Max. instances	8
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**path-name**] *reference*

Synopsis	Path name
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference*
Tree	secondary
Reference	**configure** router *named-item-64* mpls path *named-item-64*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptive *boolean*

Synopsis	Enable make-before-break functionality
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* adaptive *boolean*
Tree	adaptive
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LSP path
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	Amount of bandwidth to be reserved

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Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* bandwidth *number*
Tree	bandwidth
Range	0 to 6400000
Units	megabps
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* bfd
Tree	bfd
Description	Commands in this context configure BFD on RSVP LSPs or Seamless BFD (S-BFD) on SR-TE LSPs.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD on the RSVP LSP or S-BFD on the SR-TE LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* bfd bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, LSP BFD is enabled on the RSVP LSP or S-BFD is enabled for the SR-TE LSP. LSP BFD must also be configured under the **configure router** context. The named BFD template provides the configuration settings for the BFD session, which must be configured and associated with the service using the BFD template. When configured to **false**, LSP BFD is disabled on the RSVP LSP or S-BFD on the SR-TE LSP.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-template *reference*

Synopsis	BFD template to be used by LSP BFD sessions
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* bfd bfd-template *reference*
Tree	bfd-template
Reference	**configure** bfd bfd-template *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ping-interval *(number | keyword)*

Synopsis	Interval for periodic LSP ping for BFD bootstrapping
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* bfd lsp-ping-interval *(number | keyword)*
Tree	lsp-ping-interval
Range	60 to 300
Units	seconds
Options	none
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

wait-for-up-timer *number*

Synopsis	Time to wait for BFD to become operationally available
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* bfd wait-for-up-timer *number*
Tree	wait-for-up-timer
Description	This command configures the time to wait for BFD to become operationally up. The timer is applicable to SR-TE LSPs, including auto LSPs and PCE-initiated LSPS, as well RSVP-TE LSPs. For SR-TE LSPs, the timer takes effect when BFD is first enabled on a path or when BFD transitions from up to down. Upon expiration, if BFD is not up, the path is torn down, removed from the TTM and the IOM, and the system starts the retry timer. For RSVP-TE LSPs, the timer controls the following: • a path undergoing MBB when BFD is up

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- the initial administrative state of the LSP
- the retry signaling of non-standby secondary paths

Range	1 to 60
Units	seconds
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type *number*

Synopsis	Class-type
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* class-type *number*
Tree	class-type
Range	0 to 7
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-metric-limit *number*

Synopsis	Delay metric limit
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* delay-metric-limit *number*
Tree	delay-metric-limit
Description	This command configures the upper limit of the delay metric used by the local CSPF in the LSP path computation. The computation uses this configuration value only if the metric type is configured to **delay** in the **configure router mpls lsp metric-type** context. If the configured metric type is **delay** and this command is not configured, the computation selects the lowest latency path.
Range	1 to 16777215
Units	microseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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exclude-admin-group

Synopsis	Enable the **exclude-admin-group** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* exclude-admin-group
Tree	exclude-admin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group *reference*

Synopsis	Groups to exclude when the LSP path is setup
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* exclude-admin-group group *reference*
Tree	group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit *number*

Synopsis	Total number of hops that an LSP traverses
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

include-admin-group

Synopsis	Enable the **include-admin-group** context

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Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* include-admin-group
Tree	include-admin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group *reference*

Synopsis	Groups that are included when LSP path is setup
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* include-admin-group group *reference*
Tree	group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

path-preference *number*

Synopsis	Path preference for the secondary standby path
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* path-preference *number*
Tree	path-preference
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* priority
Tree	priority

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Introduced	25.3.R2
Platforms	SAR Gen 2

hold-priority *number*

Synopsis	Priority of an LSP session at preemption action
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* priority hold-priority *number*
Tree	hold-priority
Range	0 to 7
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

setup-priority *number*

Synopsis	Priority when insufficient bandwidth for LSP setup
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* priority setup-priority *number*
Tree	setup-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

record *boolean*

Synopsis	Enable recording of all hops that an LSP path traverses
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* record *boolean*
Tree	record
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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record-label *boolean*

Synopsis	Enable recording of labels at each node or instance
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* record-label *boolean*
Tree	record-label
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg *boolean*

Synopsis	Use SRLG constraint in secondary path computation for an LSP at the head-end LER
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* srlg *boolean*
Tree	srlg
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

standby *boolean*

Synopsis	Keep secondary path indefinitely in hot standby state
Context	**configure** router *named-item-64* mpls lsp *named-item-64* secondary *reference* standby *boolean*
Tree	standby
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

to *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination IP address or the egress router for the LSP

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Context	**configure** router *named-item-64* mpls lsp *named-item-64* to *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	to
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	LSP for bypass protection, point to multipoint, segment routing or MPLS-TP static LSP
Context	**configure** router *named-item-64* mpls lsp *named-item-64* type *keyword*
Tree	type
Options	p2p-rsvp, p2p-static-mpls, p2p-rsvp-bypass, p2mp-rsvp, p2mp-rsvp-auto, p2p-rsvp-mesh, p2p-rsvp-one-hop, p2p-sr-te, p2p-sr-te-mesh, p2p-sr-te-one-hop, p2p-sr-te-pce-init, p2p-sr-te-on-demand, p2p-rsvp-member
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

vprn-auto-bind *boolean*

Synopsis	Include this LSP in auto-bind for VPRN services
Context	**configure** router *named-item-64* mpls lsp *named-item-64* vprn-auto-bind *boolean*
Tree	vprn-auto-bind
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-bsid-block *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Reserved label block for binding SIDs
Context	**configure** router *named-item-64* mpls lsp-bsid-block *reference*

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Tree	lsp-bsid-block
Description	This command references a pre-existing reserved label block for statically configured binding SIDs.
Reference	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-history

Synopsis	Enable the **lsp-history** context
Context	**configure** router *named-item-64* mpls lsp-history
Tree	lsp-history
Description	Commands in this context control the recording of LSP history events. When the context is deleted, memory is deallocated. When the context is created, memory is allocated for storing up to 100 of the most recent RSVP and SR-TE LSP history events.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of LSP history recording
Context	**configure** router *named-item-64* mpls lsp-history admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-init-retry-timeout *number*

Synopsis	LSP initial retry timeout
Context	**configure** router *named-item-64* mpls lsp-init-retry-timeout *number*
Tree	lsp-init-retry-timeout
Range	10 to 600

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Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-template [template-name] *named-item*

Synopsis	Enter the **lsp-template** list instance
Context	**configure** router *named-item-64* mpls lsp-template *named-item*
Tree	lsp-template
Description	Commands in this context configure the attributes of an LSP template that can be referenced by a client application when dynamic LSPs must be created.
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

[**template-name**] *named-item*

Synopsis	LSP template name
Context	**configure** router *named-item-64* mpls lsp-template *named-item*
Tree	lsp-template
Description	This command specifies the name of the LSP template. An LSP template name and LSP name must not be the same.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptive *boolean*

WARNING:
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Synopsis	Enable make-before-break functionality
Context	**configure** router *named-item-64* mpls lsp-template *named-item* adaptive *boolean*
Tree	adaptive
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tag [name] *reference*

Synopsis	Add a list entry for **admin-tag**
Context	**configure** router *named-item-64* mpls lsp-template *named-item* admin-tag *reference*
Tree	admin-tag
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *reference*

Synopsis	Name of the admin tags
Context	**configure** router *named-item-64* mpls lsp-template *named-item* admin-tag *reference*
Tree	admin-tag
Reference	**configure** routing-options admin-tags admin-tag *string*
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

adspec *boolean*

WARNING:
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Synopsis	Include ADSPEC objects in RSVP messages
Context	**configure** router *named-item-64* mpls lsp-template *named-item* adspec *boolean*
Tree	adspec
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-class-type *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Backup class type for this LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* backup-class-type *number*
Tree	backup-class-type
Range	0 to 7
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	Amount of bandwidth reserved for the P2MP instance
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bandwidth *number*
Tree	bandwidth
Range	0 to 6400000
Units	megabps

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Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **bfd** context
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bfd
Tree	bfd
Description	Commands in this context configure BFD on LSPs. These commands apply to BFD on RSVP LSPs.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD on the LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bfd bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, the system enables LSP BFD on the LSP. LSP BFD must also be configured under the **configure router** context. The named BFD template provides the configuration settings for the BFD session, which must be configured and associated with the service using the BFD template. When configured to **false**, the system disables LSP BFD on the LSP.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-template *reference*

Synopsis	BFD template to be used by LSP BFD sessions

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Context	**configure** router *named-item-64* mpls lsp-template *named-item* bfd bfd-template *reference*
Tree	bfd-template
Reference	**configure** bfd bfd-template *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

failure-action *keyword*

Synopsis	Action to take when LSP BFD session fails
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bfd failure-action *keyword*
Tree	failure-action
Options	none, down, failover-or-down
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ping-interval *(number | keyword)*

Synopsis	Interval for periodic LSP ping for BFD bootstrapping
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bfd lsp-ping-interval *(number | keyword)*
Tree	lsp-ping-interval
Range	60 to 300
Units	seconds
Options	none
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

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bgp-shortcut *boolean*

WARNING:
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Synopsis	Enable use of RSVP LSP for IPv4 BGP routes
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bgp-shortcut *boolean*
Tree	bgp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-transport-tunnel *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Allow use of RSVP-TE LSP as transport for tunnel routes
Context	**configure** router *named-item-64* mpls lsp-template *named-item* bgp-transport-tunnel *boolean*
Tree	bgp-transport-tunnel
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

binding-sid *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Request to allocate and bind a label
Context	**configure** router *named-item-64* mpls lsp-template *named-item* binding-sid *boolean*
Tree	binding-sid
Description	When configured to **true**, the system allocates and binds a label to any LSP that is created using the template.

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When configured to **false**, this command removes the configuration but this does not affect LSPs that were already created using the template.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Class type for an LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* class-type *number*
Tree	class-type
Range	0 to 7
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

default-path *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Default path to be used for signaling LSP instances
Context	**configure** router *named-item-64* mpls lsp-template *named-item* default-path *reference*
Tree	default-path
Reference	**configure** router *named-item-64* mpls path *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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delay-metric-limit *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay metric limit
Context	**configure** router *named-item-64* mpls lsp-template *named-item* delay-metric-limit *number*
Tree	delay-metric-limit
Description	This command configures the upper limit of the delay metric used by the local CSPF in the LSP path computation. The computation uses this configuration value only if the metric type is configured to **delay** in the **configure router mpls lsp-template metric-type** context. If the configured metric type is **delay** and this command is not configured, the computation selects the lowest latency path.
Range	1 to 16777215
Units	microseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Entropy label for an LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* entropy-label *keyword*
Tree	entropy-label
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

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exclude-admin-group *reference*

WARNING:
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Synopsis	Admin group name excluded when LSP is set up
Context	**configure** router *named-item-64* mpls lsp-template *named-item* exclude-admin-group *reference*
Tree	exclude-admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

fallback-path-computation-method *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Fallback path computation method
Context	**configure** router *named-item-64* mpls lsp-template *named-item* fallback-path-computation-method *keyword*
Tree	fallback-path-computation-method
Description	This command specifies the fallback path computation method used if all configured PCEs are down or are signaling overload and the redelegation timer has expired. This method is used regardless of whether the LSP is PCE-controlled and PCE-computed, or only PCE-computed.
Options	none, local-cspf
Introduced	25.3.R2
Platforms	SAR Gen 2

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family *keyword*

WARNING:
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Synopsis	Address family that specifies template use in SR-TE LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* family *keyword*
Tree	family
Description	This command specifies the address family for which the LSP template applies in an SR-TE LSP. An LSP template is required for each address family.
Options	ipv4, ipv6
Default	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-reroute

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **fast-reroute** context
Context	**configure** router *named-item-64* mpls lsp-template *named-item* fast-reroute
Tree	fast-reroute
Introduced	25.3.R2
Platforms	SAR Gen 2

frr-method *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Fast Reroute method for the LSPs that are dynamically created using this LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* fast-reroute frr-method *keyword*

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Tree	frr-method
Options	one-to-one, facility
Default	facility
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit *number*

Synopsis	Total number of hops a detour or backup LSP can take
Context	**configure** router *named-item-64* mpls lsp-template *named-item* fast-reroute hop-limit *number*
Tree	hop-limit
Range	0 to 255
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

node-protect *boolean*

Synopsis	Enable node and link protection for the specified LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* fast-reroute node-protect *boolean*
Tree	node-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-admin-group *boolean*

Synopsis	Enable admin group constraints on a FRR backup LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* fast-reroute propagate-admin-group *boolean*
Tree	propagate-admin-group
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

from *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
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Synopsis	IP address of the ingress router for the LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* from *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	from
Introduced	25.3.R2
Platforms	SAR Gen 2

hop-limit *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum hops for an LSP created using this LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* hop-limit *number*
Tree	hop-limit
Range	2 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-shortcut

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **igp-shortcut** context
Context	**configure** router *named-item-64* mpls lsp-template *named-item* igp-shortcut
Tree	igp-shortcut
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
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Synopsis	Administrative state of LSP for shortcut or forwarding
Context	**configure** router *named-item-64* mpls lsp-template *named-item* igp-shortcut admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-sr-over-srte *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Use as eligible SRv4 or SRv6 IGP shortcut
Context	**configure** router *named-item-64* mpls lsp-template *named-item* igp-shortcut allow-sr-over-srte *boolean*
Tree	allow-sr-over-srte
Description	When configured to **true**, the router performs local SPF and the SR-TE LSP template is used as an eligible IGP SR-MPLS shortcut for SR-MPLS SRv4 or SRv6 only if the SR-TE is explicitly allowed using this command and when the top SID in the SR-TE LSP is an adjacency SID.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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lfa-type *keyword*

WARNING:
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Synopsis	LSP usage in LFA SPF
Context	**configure** router *named-item-64* mpls lsp-template *named-item* igp-shortcut lfa-type *keyword*
Tree	lfa-type
Options	lfa-protect, lfa-only
Notes	The following elements are part of a choice: **lfa-type** or **relative-metric**.
Introduced	25.3.R2
Platforms	SAR Gen 2

relative-metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Shortest IGP cost between the endpoints of the LSP plus the configured offset
Context	**configure** router *named-item-64* mpls lsp-template *named-item* igp-shortcut relative-metric *number*
Tree	relative-metric
Range	-10 to 10
Notes	The following elements are part of a choice: **lfa-type** or **relative-metric**.
Introduced	25.3.R2
Platforms	SAR Gen 2

include-admin-group *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Admin group name included when LSP is set up

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Context	**configure** router *named-item-64* mpls lsp-template *named-item* include-admin-group *reference*
Tree	include-admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

label-stack-reduction *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable label compression for LSP path
Context	**configure** router *named-item-64* mpls lsp-template *named-item* label-stack-reduction *boolean*
Tree	label-stack-reduction
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-over-rsvp *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include this LSP in LDP over RSVP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* ldp-over-rsvp *boolean*
Tree	ldp-over-rsvp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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least-fill *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable least-fill path selection for this LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* least-fill *boolean*
Tree	least-fill
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Load balancing weight for an MPLS LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

local-sr-protection *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local SR protection preference for LSP path computation
Context	**configure** router *named-item-64* mpls lsp-template *named-item* local-sr-protection *keyword*
Tree	local-sr-protection
Options	none, preferred, mandatory

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Default	preferred
Introduced	25.3.R2
Platforms	SAR Gen 2

main-ct-retry-limit *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of retries before reverting to backup CT
Context	**configure** router *named-item-64* mpls lsp-template *named-item* main-ct-retry-limit *number*
Tree	main-ct-retry-limit
Range	1 to 10000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sr-labels

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **max-sr-labels** context
Context	**configure** router *named-item-64* mpls lsp-template *named-item* max-sr-labels
Tree	max-sr-labels
Introduced	25.3.R2
Platforms	SAR Gen 2

additional-frr-labels *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of additional overhead labels

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Context	**configure** router *named-item-64* mpls lsp-template *named-item* max-sr-labels additional-frr-labels *number*
Tree	additional-frr-labels
Range	0 to 4
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

label-stack-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Size for the maximum segment routing label stack
Context	**configure** router *named-item-64* mpls lsp-template *named-item* max-sr-labels label-stack-size *number*
Tree	label-stack-size
Range	1 to 11
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	LSP template metric
Context	**configure** router *named-item-64* mpls lsp-template *named-item* metric *number*
Tree	metric
Range	0 to 16777215
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Metric type used for LSP path computation
Context	**configure** router *named-item-64* mpls lsp-template *named-item* metric-type *keyword*
Tree	metric-type
Options	igp, te, delay
Default	igp
Introduced	25.3.R2
Platforms	SAR Gen 2

override-tunnel-elc *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Override any received entropy label capability
Context	**configure** router *named-item-64* mpls lsp-template *named-item* override-tunnel-elc *boolean*
Tree	override-tunnel-elc
Description	When configured to **true**, this command allows the system to override any received entropy label capability advertisement. When configured to **false**, this command disables the override.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

path-computation-method *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Path computation method

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Context	**configure** router *named-item-64* mpls lsp-template *named-item* path-computation-method *keyword*
Tree	path-computation-method
Description	This command configures the path computation method of an RSVP-TE or SR-TE LSP. If this command is not configured to one of the supported options, the default path computation method is used depending on the type of LSP; the hop-to-label translation is used for the SR-TE LSP template and the IGP-based path is used for the RSVP-TE-LSP. See "SR-TE LSP path computation using hop-to-label translation" in the *7705 SAR Gen 2 Segment Routing and PCE User Guide* for more information.
Options	local-cspf, pce
Introduced	25.3.R2
Platforms	SAR Gen 2

path-profile [profile-id] *number*

Synopsis	Enter the **path-profile** list instance
Context	**configure** router *named-item-64* mpls lsp-template *named-item* path-profile *number*
Tree	path-profile
Description	Commands in this context configure the attributes of the PCE path profile.
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**profile-id**] *number*

Synopsis	Profile ID for the specified LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* path-profile *number*
Tree	path-profile
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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path-group *number*

Synopsis	Path-group ID for the specified LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* path-profile *number* path-group *number*
Tree	path-group
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pce-associations

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **pce-associations** context
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-associations
Tree	pce-associations
Description	Commands in this context configure the LSP binding with one or more PCEP associations.
Introduced	25.3.R2
Platforms	SAR Gen 2

diversity [diversity-name] *reference*

Synopsis	Add a list entry for **diversity**
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-associations diversity *reference*
Tree	diversity
Description	Commands in this context bind the LSP to a named diversity association. The diversity association must exist under the PCC.
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**diversity-name**] *reference*

Synopsis	Name of the PCE association configured under the PCC
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-associations diversity *reference*
Tree	diversity
Reference	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy [policy-name] *reference*

Synopsis	Add a list entry for **policy**
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-associations policy *reference*
Tree	policy
Description	Commands in this context bind the LSP to a named policy association. The policy association name must exist under the PCC.
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *reference*

Synopsis	Name of the PCE association configured under the PCC
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-associations policy *reference*
Tree	policy
Reference	**configure** router *named-item-64* pcep pcc pce-associations policy *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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pce-control *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable PCE controlled LSP mode of operation
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-control *boolean*
Tree	pce-control
Description	When configured to **true**, this command enables a PCE-controlled mode of operation for the LSP. In this mode, the router delegates full control of the LSP to the PCE (PCE controlled). The PCE acts in stateful-active mode for this LSP and is able to reroute the path following a failure or to re-optimize the path and update the router without a request from the router. When configured to **false**, the PCE-controlled mode of operation for the LSP has no effect.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pce-report *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable reporting modes to PCE for RSVP-TE or SR-TE LSPs
Context	**configure** router *named-item-64* mpls lsp-template *named-item* pce-report *keyword*
Tree	pce-report
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

WARNING:
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Synopsis	Enter the **priority** context
Context	**configure** router *named-item-64* mpls lsp-template *named-item* priority
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-priority *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Hold priority when insufficient bandwidth is available to set up LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* priority hold-priority *number*
Tree	hold-priority
Range	0 to 7
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

setup-priority *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Setup priority when insufficient bandwidth is available to set up LSP
Context	**configure** router *named-item-64* mpls lsp-template *named-item* priority setup-priority *number*
Tree	setup-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-admin-group *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable admin groups via session attribute object
Context	**configure** router *named-item-64* mpls lsp-template *named-item* propagate-admin-group *boolean*
Tree	propagate-admin-group
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

record *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable recording of all hops for this LSP template
Context	**configure** router *named-item-64* mpls lsp-template *named-item* record *boolean*
Tree	record
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

record-label *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable recording of labels at each node or instance
Context	**configure** router *named-item-64* mpls lsp-template *named-item* record-label *boolean*
Tree	record-label
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

retry-limit *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of attempts to re-establish LSP after it fails
Context	**configure** router *named-item-64* mpls lsp-template *named-item* retry-limit *number*
Tree	retry-limit
Range	1 to 10000
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timer *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time for LSP re-establishment attempts after failure
Context	**configure** router *named-item-64* mpls lsp-template *named-item* retry-timer *number*
Tree	retry-timer
Range	1 to 600
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

template-id *(number | keyword)*

WARNING:
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WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Template ID
Context	**configure** router *named-item-64* mpls lsp-template *named-item* template-id *(number | keyword)*
Tree	template-id
Description	This command specifies the value that is signaled in the PCE to identify the LSP template.
Range	1 to 4294967295
Options	default
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	LSP template type
Context	**configure** router *named-item-64* mpls lsp-template *named-item* type *keyword*
Tree	type
Description	This command configures the type of a template that can be referenced by a client application where dynamic LSP creation is required. The LSP template type is mandatory.
Options	p2mp-rsvp, p2p-rsvp-one-hop, p2p-rsvp-mesh, p2p-sr-te-one-hop, p2p-sr-te-mesh, p2p-sr-te-pce-init, p2p-sr-te-on-demand, p2p-rsvp-member
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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vprn-auto-bind *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include LSP template in auto-bind for VPRN services
Context	**configure** router *named-item-64* mpls lsp-template *named-item* vprn-auto-bind *boolean*
Tree	vprn-auto-bind
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

max-bypass-associations *number*

Synopsis	Maximum number of LSPs associated with a bypass tunnel
Context	**configure** router *named-item-64* mpls max-bypass-associations *number*
Tree	max-bypass-associations
Range	100 to 131072
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-bypass-plr-associations *number*

Synopsis	Maximum number of PLRs per RSVP-TE bypass LSP
Context	**configure** router *named-item-64* mpls max-bypass-plr-associations *number*
Tree	max-bypass-plr-associations
Range	1 to 16
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

mbb-prefer-current-hops *boolean*

Synopsis	Select preference to use the current hops for (MBB

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Context **configure** router *named-item-64* mpls mbb-prefer-current-hops *boolean*

Tree mbb-prefer-current-hops

Description When configured to **true**, the router instructs CSPF to select an MBB path of a RSVP-TE LSP which has the most overlapping links with the current path.

When MPLS performs an MBB for the primary or secondary path of a P2P LSP, or the S2L path of a P2MP LSP, and this command is enabled in the MPLS context, CSPF selects a path, among equal-cost candidate paths, with the most overlapping links with the current path. Normally, CSPF selects the path randomly.

The procedures for the MBB CSPF path selection apply to LSP without the **least-fill** command enabled. If the least-fill rule results in a different path, the LSP path is moved. Users can still favor stability over the least-fill condition by applying a larger value to the **least-fill-min-thd** command, under the MPLS context, such that a path is only moved when the difference of the least-available bandwidth becomes significant enough between the most used links in the equal-cost paths. If that difference is not significant enough, CSPF selects the path with the most overlapping links instead of selecting a path randomly.

The procedures when this command is enabled apply to the following MBB types:

- RSVP P2P LSP:
- global revertive MBB
- autobandwidth MBB
- configuration change MBB
- soft preemption MBB
- TE graceful shutdown MBB
- delayed retry MBB (for SRLG secondary LSP path)
- path change MBB
- timer resignal MBB
- manual resignal MBB
- S2L path of a RSVP P2MP LSP:
- global revertive MBB
- soft preemption MBB
- TE graceful shutdown MBB

During the FRR global revertive MBB, CSPF selects a random link from those available between the PLR node and the Merge Point node, including the failed link if it has restored in the meantime. These links cannot be checked for overlap with the current path.

The TE graceful shutdown MBB still avoids the link or node that is in maintenance and the soft preemption MBB still avoids the link that is overbooked.

For an inter-area LSP, this feature applies to the subset of the path from the ingress LER to the exit ABR.

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The procedures of this feature are not applied to a zero-bandwidth CSPF LSP, including an autobandwidth CSPF LSP while its operational bandwidth is zero, and to a non-CSPF LSP.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

p2p-active-path-fast-retry *number*

Synopsis	Fast retry timer for P2P active paths
Context	**configure** router *named-item-64* mpls p2p-active-path-fast-retry *number*
Tree	p2p-active-path-fast-retry
Range	1 to 10
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

path [path-name] *named-item-64*

Synopsis	Enter the **path** list instance
Context	**configure** router *named-item-64* mpls path *named-item-64*
Tree	path
Max. instances	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

[**path-name**] *named-item-64*

Synopsis	Name for this LSP path
Context	**configure** router *named-item-64* mpls path *named-item-64*
Tree	path
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the path used for LSPs
Context	**configure** router *named-item-64* mpls path *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hop [hop-index] *number*

Synopsis	Enter the **hop** list instance
Context	**configure** router *named-item-64* mpls path *named-item-64* hop *number*
Tree	hop
Max. instances	255
Introduced	25.3.R2
Platforms	SAR Gen 2

[**hop-index**] *number*

Synopsis	Index to identify a particular hop
Context	**configure** router *named-item-64* mpls path *named-item-64* hop *number*
Tree	hop
Range	1 to 1024
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IP address of the transit router
Context	**configure** router *named-item-64* mpls path *named-item-64* hop *number* ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a mandatory choice: (**ip-address** and **type**) or **sid-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sid-label *number*

Synopsis	MPLS label for tunnel hop in the path of an SR-TE LSP
Context	**configure** router *named-item-64* mpls path *named-item-64* hop *number* sid-label *number*
Tree	sid-label
Range	32 to 1048575
Notes	The following elements are part of a mandatory choice: (**ip-address** and **type**) or **sid-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Tunnel hop type
Context	**configure** router *named-item-64* mpls path *named-item-64* hop *number* type *keyword*
Tree	type
Options	strict, loose
Notes	The following elements are part of a mandatory choice: (**ip-address** and **type**) or **sid-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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pce-init-lsp

Synopsis	Enable the **pce-init-lsp** context
Context	**configure** router *named-item-64* mpls pce-init-lsp
Tree	pce-init-lsp
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te

Synopsis	Enable the **sr-te** context
Context	**configure** router *named-item-64* mpls pce-init-lsp sr-te
Tree	sr-te
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of SR-TE PCE-initiated LSP support
Context	**configure** router *named-item-64* mpls pce-init-lsp sr-te admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

pce-report

Synopsis	Enter the **pce-report** context
Context	**configure** router *named-item-64* mpls pce-report
Tree	pce-report
Introduced	25.3.R2
Platforms	SAR Gen 2

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rsvp-te *boolean*

Synopsis	Allow PCE reporting for all TE LSPs of RSVP-TE type
Context	**configure** router *named-item-64* mpls pce-report rsvp-te *boolean*
Tree	rsvp-te
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *boolean*

Synopsis	Allow PCE reporting for all TE LSPs of SR-TE type
Context	**configure** router *named-item-64* mpls pce-report sr-te *boolean*
Tree	sr-te
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

resignal-on-igp-event *boolean*

Synopsis	Reoptimize RSVP LSP paths upon IGP events
Context	**configure** router *named-item-64* mpls resignal-on-igp-event *boolean*
Tree	resignal-on-igp-event
Description	When configured to **true**, the system enables the ad hoc reoptimization of the active CSPF path of all RSVP-TE LSPs at the receipt of an IGP link event. The following link events are supported: • link down • link up • IGP or TE metric change • SRLG change • admin group change The ad hoc reoptimization follows the same behavior as in the timer-based resignal Make-Before-Break (MBB) feature. MPLS reevaluates the active paths of all RSVP-TE LSPs. The reevaluation consists of updating the total IGP or TE metric of the current path, checking the validity of the hops, and computing a new CSPF path. MPLS signals and programs the new path only if its total metric is different than the updated metric of the current path, or if one or more hops of the current path are invalid. Otherwise, the current path is considered to be the most optimal and retained.

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This feature does not require that the timer-based resignal (**configure router mpls resignal-timer**) command be enabled. If enabled, the resignal timer is aborted and an ad hoc reoptimization is performed.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

resignal-on-igp-overload *boolean*

Synopsis Resignal all RSVP-TE LSPs upon IGP overload

Context **configure** router *named-item-64* mpls resignal-on-igp-overload *boolean*

Tree resignal-on-igp-overload

Description When configured to **true**, the receipt of the IS-IS overload bit in the TE-DB triggers the immediate resignaling of all RSVP-TE LSPs. MPLS forces the expiry of the resignal timer and the TE-DB computes a new CSPF for each RSVP-TE LSP active path. The re-optimization causes the immediate transition of RSVP-TE LSP paths away from the IS-IS node in overload using the MBB operation.

This command cannot be configured to **true** when the **retry-on-igp-overloa**d command is configured to **true**.

When configured to **false**, the default behavior is maintained where MBB re-optimization occurs only when a timer-based resignal is performed or a manual resignal is executed.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

resignal-timer *number*

Synopsis Resignal timer for RSVP LSPs

Context **configure** router *named-item-64* mpls resignal-timer *number*

Tree resignal-timer

Range 30 to 10080

Units minutes

Introduced 25.3.R2

Platforms SAR Gen 2

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retry-on-igp-overload *boolean*

Synopsis	Tear down LSPs when IGP is in overload state
Context	**configure** router *named-item-64* mpls retry-on-igp-overload *boolean*
Tree	retry-on-igp-overload
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-fast-retry-timer *number*

Synopsis	Fast retry timer for secondary paths
Context	**configure** router *named-item-64* mpls secondary-fast-retry-timer *number*
Tree	secondary-fast-retry-timer
Range	1 to 10
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

shortcut-local-ttl-propagate *boolean*

Synopsis	Propagate TTL over LSP shortcut for local packets
Context	**configure** router *named-item-64* mpls shortcut-local-ttl-propagate *boolean*
Tree	shortcut-local-ttl-propagate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

shortcut-transit-ttl-propagate *boolean*

Synopsis	Propagate TTL over LSP shortcut for local packets for transit packets
Context	**configure** router *named-item-64* mpls shortcut-transit-ttl-propagate *boolean*
Tree	shortcut-transit-ttl-propagate
Default	true
Introduced	25.3.R2

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Platforms SAR Gen 2

sr-te-resignal

Synopsis Enter the **sr-te-resignal** context

Context **configure** router *named-item-64* mpls sr-te-resignal

Tree sr-te-resignal

Introduced 25.3.R2

Platforms SAR Gen 2

resignal-on-igp-event *boolean*

Synopsis Reoptimize SR-TE LSPs upon IGP link events

Context **configure** router *named-item-64* mpls sr-te-resignal resignal-on-igp-event *boolean*

Tree resignal-on-igp-event

Description When configured to **true**, the system enables the ad hoc reoptimization of all CSPF paths in the operational UP state of all SR-TE LSPs at the receipt of an IGP link event. The following link events are supported:

- link down
- link up
- IGP or TE metric change
- SRLG change
- admin group change

The ad hoc reoptimization follows the same behavior as in the timer-based resignal Make-Before-Break (MBB) feature. MPLS reevaluates all the paths in the operational UP state of all SR-TE LSPs. The reevaluation consists of updating the total IGP or TE metric of the current path, checking the validity of the hops and labels, and computing a new CSPF path. MPLS programs the new path only if its total metric is different than the updated metric of the current path, or if one or more hops or labels of the current path are invalid. Otherwise, the current path is considered to be the most optimal and retained.

This feature does not require that the timer-based resignal (**configure router mpls sr-te-resignal resignal-timer**) command be enabled. If enabled, the resignal timer is aborted and an ad hoc reoptimization is performed.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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resignal-on-igp-overload *boolean*

Synopsis	Enable resignaling of SR-TE LSPs upon IGP overload
Context	**configure** router *named-item-64* mpls sr-te-resignal resignal-on-igp-overload *boolean*
Tree	resignal-on-igp-overload
Description	When configured to **true**, the system enables ad-hoc re-optimzation of the CSPF paths of all SR-TE LSPs when IS-IS receives an IS-IS overload bit advertisement from a remote router. When this command is enabled on the router and an IGP overload bit is set in a Layer 1 or Layer 2 IS-IS LSP received from a remote router, MPLS performs an ad-hoc re-optimization of all the paths of all the SR-TE LSPs that have paths computed by the local CSPF. For each SR-TE LSP current path that transits the router in overload, the CSPF looks for a new path that avoids the router. For each SR-TE LSP current path that terminates on the router in overload, the CSPF checks if a better path exists. In both cases, if a new path is not found the system maintains the current path when operationally up. The ad-hoc re-optimization triggers the timer-based re-optimization by forcing the resignal timer to expire. Therefore, the user must use the **configure router mpls sr-te-resignal resignal-timer** command to configure the resignal timer for the SR-TE application. When configured to **false**, MPLS does not act immediately on an IS-IS overload bit from a remote router. MPLS acts on it at the next timer-based or manual re-optimization of the SR-TE LSPs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

resignal-timer *number*

Synopsis	Resignal timer for SR-TE LSPs
Context	**configure** router *named-item-64* mpls sr-te-resignal resignal-timer *number*
Tree	resignal-timer
Description	This command configures the time the system waits before signaling the re-optimization of all SR-TE LSPs.
Range	30 to 10080
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

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srlg-database

Synopsis	Enter the **srlg-database** context
Context	**configure** router *named-item-64* mpls srlg-database
Tree	srlg-database
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id [router-address] *ipv4-address*

Synopsis	Enter the **router-id** list instance
Context	**configure** router *named-item-64* mpls srlg-database router-id *ipv4-address*
Tree	router-id
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-address**] *ipv4-address*

Synopsis	Router ID for the system
Context	**configure** router *named-item-64* mpls srlg-database router-id *ipv4-address*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the interface entry
Context	**configure** router *named-item-64* mpls srlg-database router-id *ipv4-address* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-address] *ipv4-address* srlg-group *reference*

Synopsis	Add a list entry for **interface**
Context	**configure** router *named-item-64* mpls srlg-database router-id *ipv4-address* interface *ipv4-address* srlg-group *reference*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-address**] *ipv4-address*

Synopsis	IP address of the interface
Context	**configure** router *named-item-64* mpls srlg-database router-id *ipv4-address* interface *ipv4-address* srlg-group *reference*
Tree	interface
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg-group *reference*

Synopsis	SRLG group name
Context	**configure** router *named-item-64* mpls srlg-database router-id *ipv4-address* interface *ipv4-address* srlg-group *reference*
Tree	interface
Reference	**configure** routing-options if-attribute srlg-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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srlg-frr *keyword*

Synopsis	Use of SRLG constraint for FRR path computation
Context	**configure** router *named-item-64* mpls srlg-frr *keyword*
Tree	srlg-frr
Options	loose, strict
Introduced	25.3.R2
Platforms	SAR Gen 2

static-lsp [lsp-name] *named-item-64*

Synopsis	Enter the **static-lsp** list instance
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64*
Tree	static-lsp
Max. instances	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lsp-name**] *named-item-64*

Synopsis	Labeled Switch path name
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64*
Tree	static-lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static LSP
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MPLS static LSP metric to select an LSP
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64* metric *number*
Tree	metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

push

Synopsis	Enable the **push** context
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64* push
Tree	push
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *ipv4-unicast-address*

Synopsis	IP address for the next hop
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64* push next-hop *ipv4-unicast-address*
Tree	next-hop
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

out-label *(number | keyword)*

Synopsis	Push specific label onto the top of the outgoing packet's label stack
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64* push out-label *(number | keyword)*
Tree	out-label
Range	16 to 1048575
Options	implicit-null-label
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

to *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination IP address or the egress router for the LSP
Context	**configure** router *named-item-64* mpls static-lsp *named-item-64* to *ipv4-unicast-address*
Tree	to
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

static-lsp-fast-retry *number*

Synopsis	Fast retry timer for static LSPs
Context	**configure** router *named-item-64* mpls static-lsp-fast-retry *number*
Tree	static-lsp-fast-retry
Range	1 to 30
Units	seconds
Default	30

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Introduced	25.3.R2
Platforms	SAR Gen 2

strict-ero-nhop-direct-resolution *boolean*

Synopsis	Resolves RSVP-TE LSP ERO to local and host routes only
Context	**configure** router *named-item-64* mpls strict-ero-nhop-direct-resolution *boolean*
Tree	strict-ero-nhop-direct-resolution
Description	When configured to **true**, the router enables the strict Explicit Route Object (ERO) next-hop direct resolution. The feature restricts the routes used to resolve the next hop of an ERO address to local and host routes. This command avoids using a next hop over a parallel link when a half link is up in the routing table. This command applies to an ERO when all of the following conditions are met: • the ERO next hop is an IPv4 address • the ERO object is a strict hop • the IPv4 address matches the primary subnet of a local numbered interface If no such route exists, RSVP rejects the PATH message with ErrCode = Routing Error (24) and SubErrCode = Bad Strict Node (2). When configured to **false**, the router disables the strict ERO next-hop direct resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-table-pref

Synopsis	Enter the **tunnel-table-pref** context
Context	**configure** router *named-item-64* mpls tunnel-table-pref
Tree	tunnel-table-pref
Description	Commands in this context configure the tunnel table preference for RSVP-TE LSP and SR-TE LSP tunnel types.
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-te *number*

Synopsis	RSVP-TE tunnel table preference
Context	**configure** router *named-item-64* mpls tunnel-table-pref rsvp-te *number*

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Tree	rsvp-te
Description	This command configures the tunnel table preference for RSVP-TE LSP tunnel type. The tunnel table preference applies to next-hop resolution of BGP routes for: EVPN, IPv4, IPv6, VPN-IPv4, VPN-IPv6, label-IPv4, and label-IPV6 in the tunnel table. This feature does not apply to a VPRN, VPLS, or VLL service with explicit binding to an SDP that enabled the **mixed-lsp-mode** option. The service manager controls and fixes the tunnel preference in such an SDP. The tunnel table preference configuration does not modify the SDP behavior, nor the services that bind to it. Nokia recommends that tunnel types have unique preference values. In a situation where two or more tunnel types are set to the same preference value, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.
Range	1 to 255
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *number*

Synopsis	SR-TE tunnel table preference
Context	**configure** router *named-item-64* mpls tunnel-table-pref sr-te *number*
Tree	sr-te
Description	This command configures the tunnel table preference for SR-TE LSP tunnel type. The tunnel table preference applies to next-hop resolution of BGP routes for: EVPN, IPv4, IPv6, VPN-IPv4, VPN-IPv6, label-IPv4, and label-IPV6 in the tunnel table. This feature does not apply to a VPRN, VPLS, or VLL service with explicit binding to an SDP that enabled the **mixed-lsp-mode** option. The service manager controls and fixes the tunnel preference in such an SDP. The tunnel table preference configuration does not modify the SDP behavior, nor the services that bind to it. It is recommended to not set two or more tunnel types to the same preference value. In such a situation, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.
Range	1 to 255
Default	8
Introduced	25.3.R2
Platforms	SAR Gen 2

user-srlg-db *boolean*

Synopsis	Enable the use of user SRLG database

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Context	**configure** router *named-item-64* mpls user-srlg-db *boolean*
Tree	user-srlg-db
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls-labels

Synopsis	Enter the **mpls-labels** context
Context	**configure** router *named-item-64* mpls-labels
Tree	mpls-labels
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-labels-hold-timer *number*

Synopsis	BGP labels hold timer for the ingress router
Context	**configure** router *named-item-64* mpls-labels bgp-labels-hold-timer *number*
Tree	bgp-labels-hold-timer
Description	This command configures the time to delay before the label-forwarding entries programmed by BGP are removed from the datapath. A non-zero delay is useful in the following situations: • label-unicast route is readvertised by an ABR/ASBR operating in label-per-next-hop mode to choose a new primary path • IP VPN route is readvertised by an ABR/ASBR operating in label-per-next-hop mode to choose a new primary path • IP VPN best-external route is readvertised by a VPRN to choose a new backup path • IP VPN route is readvertised by a VPRN in label-per-next-hop mode to choose a new primary path In the preceding situations, configure the hold timer to be large enough to account for the propagation delay of the route withdrawal to all ingress routers.
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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reserved-label-block [label-block-name] *named-item-64*

Synopsis	Enter the **reserved-label-block** list instance
Context	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Tree	reserved-label-block
Description	Commands in this context configure a block of labels from the dynamic range to be locally assigned for specific applications, such as segment routing adjacency SIDs. The reserved label block is not advertised by the IGP. **Note**: Changes to the reserved label block range do not impact the actual MPLS datapath table sizes.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**label-block-name**] *named-item-64*

Synopsis	Name for the reserved label block
Context	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Tree	reserved-label-block
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end-label *number*

Synopsis	Upper bound of the reserved label block range
Context	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64* end-label *number*
Tree	end-label
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

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start-label *number*

Synopsis	Lower bound of the reserved label block range
Context	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64* start-label *number*
Tree	start-label
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-labels

Synopsis	Enter the **sr-labels** context
Context	**configure** router *named-item-64* mpls-labels sr-labels
Tree	sr-labels
Description	Commands in this context configure the range of the Segment Routing Global Block (SRGB), which assigns labels to segment routing prefix SIDs originated by this router. The range is taken from the system dynamic label range and is not instantiated by default. Segment routing labels are reserved labels. After they are instantiated, they cannot be used for dynamic label assignment by other protocols, such as RSVP, LDP, and BGP. **Note**: Changes to the SRGB range do not impact the actual MPLS datapath table sizes.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the label range
Context	**configure** router *named-item-64* mpls-labels sr-labels end *number*
Tree	end
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the label range

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Context	**configure** router *named-item-64* mpls-labels sr-labels start *number*
Tree	start
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

static-label-range *number*

Synopsis	Static label range on the ingress router
Context	**configure** router *named-item-64* mpls-labels static-label-range *number*
Tree	static-label-range
Range	0 to 1048544
Default	18400
Introduced	25.3.R2
Platforms	SAR Gen 2

mss-adjust

Synopsis	Enable the **mss-adjust** context
Context	**configure** router *named-item-64* mss-adjust
Tree	mss-adjust
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-group *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	NAT group used for TCP-MSS adjustment
Context	**configure** router *named-item-64* mss-adjust nat-group *number*
Tree	nat-group
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

segment-size *number*

Synopsis	TCP-MSS option value in transmitted TCP SYN requests
Context	**configure** router *named-item-64* mss-adjust segment-size *number*
Tree	segment-size
Range	160 to 10240
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enable the **nat** context
Context	**configure** router *named-item-64* nat
Tree	nat
Introduced	25.3.R2
Platforms	SAR Gen 2

inside

Synopsis	Enter the **inside** context
Context	**configure** router *named-item-64* nat inside
Tree	inside
Introduced	25.3.R2
Platforms	SAR Gen 2

large-scale

Synopsis	Enter the **large-scale** context
Context	**configure** router *named-item-64* nat inside large-scale
Tree	large-scale
Introduced	25.3.R2
Platforms	SAR Gen 2

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nat-policy *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	NAT policy name for LSN
Context	**configure** router *named-item-64* nat inside large-scale nat-policy *reference*
Tree	nat-policy
Reference	**configure** service nat nat-policy *external-named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

nat44

Synopsis	Enter the **nat44** context
Context	**configure** router *named-item-64* nat inside large-scale nat44
Tree	nat44
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-prefix [ip-prefix-length] *ipv4-unicast-prefix*

Synopsis	Enter the **destination-prefix** list instance
Context	**configure** router *named-item-64* nat inside large-scale nat44 destination-prefix *ipv4-unicast-prefix*
Tree	destination-prefix
Max. instances	6144
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-length**] *ipv4-unicast-prefix*

Synopsis	IP prefix for the destination address
Context	**configure** router *named-item-64* nat inside large-scale nat44 destination-prefix *ipv4-unicast-prefix*

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Tree	destination-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-policy *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	NAT policy
Context	**configure** router *named-item-64* nat inside large-scale nat44 destination-prefix *ipv4-unicast-prefix* nat-policy *reference*
Tree	nat-policy
Reference	**configure** service nat nat-policy *external-named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

deterministic

Synopsis	Enter the **deterministic** context
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic
Tree	deterministic
Introduced	25.3.R2
Platforms	SAR Gen 2

address-map [from] *ipv4-address* to *ipv4-address* nat-policy *reference*

Synopsis	Enter the **address-map** list instance
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*
Tree	address-map
Description	Commands in this context map inside IP addresses of deterministic NAT44 subscribers to the outside IP addresses in a NAT pool. This context is only applicable to deterministic NAT44 with a single ESA-VM in a NAT-group. The number of subscribers per outside IP address is flexible and not restricted to a discrete range governed by the 2^n rule.

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When context is configured, the **max-subscriber-limit** command must be set to 1.

Introduced 25.3.R2

Platforms SAR Gen 2

[**from**] *ipv4-address*

Synopsis First IP address of inside IP NAT range

Context **configure** router *named-item-64* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*

Tree address-map

Description This command specifies the starting IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.

String format 'ipv4-address' must use only digits and dots (no %zone)
'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

to *ipv4-address*

Synopsis Ending IP address of inside IP NAT range

Context **configure** router *named-item-64* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*

Tree address-map

Description This command specifies the ending IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.

String format 'ipv4-address' must use only digits and dots (no %zone)
'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

nat-policy *reference*

Synopsis NAT policy name for LSN

Context **configure** router *named-item-64* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*

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Tree	address-map
Reference	**configure** service nat nat-policy *external-named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of address map
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

outside-range *ipv4-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	First outside IP address in NAT pool
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference* outside-range *ipv4-address*
Tree	outside-range
Description	This command specifies the first outside IP address in the NAT pool. The last outside IP address is determined by the number of subscribers mapped to an outside IP address via the **configure router nat outside pool large-scale subscriber-limit** and **configure service vprn nat outside pool large-scale subscriber-limit** commands.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-map [source-prefix] *ipv4-unicast-prefix* nat-policy *reference*

Synopsis	Enter the **prefix-map** list instance
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference*
Tree	prefix-map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-prefix**] *ipv4-unicast-prefix*

Synopsis	Traffic sent from sources within this prefix will be NATed
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference*
Tree	prefix-map
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-policy *reference*

Synopsis	NAT policy
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference*
Tree	prefix-map
Reference	**configure** service nat nat-policy *external-named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the prefix
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

map [from] *ipv4-address* to *ipv4-address*

Synopsis	Enter the **map** list instance
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address*
Tree	map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**from**] *ipv4-address*

Synopsis	First IP address of inside IP NAT range
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address*
Tree	map
Description	This command specifies the starting IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

to *ipv4-address*

Synopsis	Ending IP address of inside IP NAT range
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address*
Tree	map
Description	This command specifies the ending IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

first-outside-address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Outside IP address mapped to inside IP address range
Context	**configure** router *named-item-64* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address* first-outside-address *ipv4-address*
Tree	first-outside-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-subscriber-limit *number*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Ingress hashing for load distribution across ESA-VMs
Context	**configure** router *named-item-64* nat inside large-scale nat44 max-subscriber-limit *number*
Tree	max-subscriber-limit
Description	This command configures the maximum number of classic LSN subscribers within a consecutive range of IP addresses that are processed by the same ESA-VM. It directly defines the granularity of upstream traffic distribution across ESA-VMs within the scope of an inside routing context. The ingress hashing mechanism used for traffic distribution is based on source IPv4 addresses or prefixes.
Range	1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | 32768 | 65536

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Introduced	25.3.R2
Platforms	SAR Gen 2

outside

Synopsis	Enter the **outside** context
Context	**configure** router *named-item-64* nat outside
Tree	outside
Introduced	25.3.R2
Platforms	SAR Gen 2

filters

Synopsis	Enter the **filters** context
Context	**configure** router *named-item-64* nat outside filters
Tree	filters
Introduced	25.3.R2
Platforms	SAR Gen 2

downstream

Synopsis	Enter the **downstream** context
Context	**configure** router *named-item-64* nat outside filters downstream
Tree	downstream
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *reference*

Synopsis	IPv4 filter policy name
Context	**configure** router *named-item-64* nat outside filters downstream ipv4 *reference*
Tree	ipv4
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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upstream

Synopsis	Enter the **upstream** context
Context	**configure** router *named-item-64* nat outside filters upstream
Tree	upstream
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *reference*

Synopsis	IPv4 filter policy name
Context	**configure** router *named-item-64* nat outside filters upstream ipv4 *reference*
Tree	ipv4
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	MTU for downstream traffic
Context	**configure** router *named-item-64* nat outside mtu *number*
Tree	mtu
Range	512 to 9000
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** router *named-item-64* nat outside pool *named-item*
Tree	pool
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	NAT pool name
Context	**configure** router *named-item-64* nat outside pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address-range [start] *ipv4-unicast-address* end *ipv4-unicast-address*

Synopsis	Enter the **address-range** list instance
Context	**configure** router *named-item-64* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *ipv4-unicast-address*

Synopsis	Lower bound of the NAT address range
Context	**configure** router *named-item-64* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *ipv4-unicast-address*

Synopsis	Upper bound of the NAT address range
Context	**configure** router *named-item-64* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

drain *boolean*

Synopsis	Start or stop draining this NAT address range
Context	**configure** router *named-item-64* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address* drain *boolean*
Tree	drain
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the outside routing NAT pool

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Context	**configure** router *named-item-64* nat outside pool *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

applications

Synopsis	Enter the **applications** context
Context	**configure** router *named-item-64* nat outside pool *named-item* applications
Tree	applications
Introduced	25.3.R2
Platforms	SAR Gen 2

agnostic *boolean*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	NAT pool to create in the outside routing context
Context	**configure** router *named-item-64* nat outside pool *named-item* applications agnostic *boolean*
Tree	agnostic
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-interface-ip *boolean*

WARNING:
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WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Use an IPv4 interface for NAT
Context	**configure** router *named-item-64* nat outside pool *named-item* applications use-interface-ip *boolean*
Tree	use-interface-ip
Description	When configured to **true**, the router uses the IPv4 address of a NAT enabled local interface as the public IP address, within the same outside (public) routing context. Only one such NAT'd interface can be defined per outside routing context.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* nat outside pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-echo-reply *boolean*

Synopsis	Allow NAT pool IP addresses to respond to ICMP PINGs
Context	**configure** router *named-item-64* nat outside pool *named-item* icmp-echo-reply *boolean*
Tree	icmp-echo-reply
Description	This command allows IP addresses in the NAT pool to respond to ICMP Echo requests (PINGs). The configuration can be toggled while the pool is in use. In L2-aware NAT when port-block-extensions is disabled, the reply from an outside IP address is generated only when this IP address has at least one host (binding) behind it. In L2-aware NAT when port-block-extensions is enabled, the reply from an outside IP address is generated regardless if a binding is present.

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In LSN, the reply from an outside IP address is generated regardless if a binding is present.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

large-scale

Synopsis	Enter the **large-scale** context
Context	**configure** router *named-item-64* nat outside pool *named-item* large-scale
Tree	large-scale
Introduced	25.3.R2
Platforms	SAR Gen 2

subscriber-limit *number*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Maximum number of subscribers per IP address
Context	**configure** router *named-item-64* nat outside pool *named-item* large-scale subscriber-limit *number*
Tree	subscriber-limit
Range	1 to 65535 | 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

use-interface-ip

Synopsis	Enter the **use-interface-ip** context
Context	**configure** router *named-item-64* nat outside pool *named-item* large-scale use-interface-ip
Tree	use-interface-ip
Introduced	25.7.R1
Platforms	SAR Gen 2

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cpm-reserved-ports *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of ports per protocol reserved for CPM traffic
Context	**configure** router *named-item-64* nat outside pool *named-item* large-scale use-interface-ip cpm-reserved-ports *number*
Tree	cpm-reserved-ports
Description	This command configures the router to reserve ports specifically for local (CPM) traffic. On the public IPv4 address of a NAT interface, the ports are shared between CPM traffic and transit traffic passing through the node. This reservation ensures that NAT traffic destined for the local node (CPM traffic) is guaranteed a minimum number of available ports, even if the public IPv4 port pool becomes exhausted.
Range	0 to 65535
Default	10
Introduced	25.7.R1
Platforms	SAR Gen 2

use-well-known-ports *boolean*

Synopsis	Enable dynamic allocation of well-known ports
Context	**configure** router *named-item-64* nat outside pool *named-item* large-scale use-interface-ip use-well-known-ports *boolean*
Tree	use-well-known-ports
Description	When configured to **true**, the router configures the dynamic allocation of well-known ports for interface-based NAT. When configured to **false**, well-known ports are not dynamically allocated for either transit traffic or traffic initiated from the control plane. This command can only be configured when the **configure service vprn nat outside pool application use-interface-ip** is set to **true**. Ports within the well-known range (0-1023) can still be allocated statically using static port forwarding.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

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mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Mode of operation of this NAT address pool
Context	**configure** router *named-item-64* nat outside pool *named-item* mode *keyword*
Tree	mode
Options	auto, napt, one-to-one
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-group *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Create a NAT group
Context	**configure** router *named-item-64* nat outside pool *named-item* nat-group *reference*
Tree	nat-group
Reference	**configure** isa nat-group *number*
Notes	The following elements are part of a mandatory choice: **nat-group** or **wlan-gw-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-forwarding

Synopsis	Enter the **port-forwarding** context
Context	**configure** router *named-item-64* nat outside pool *named-item* port-forwarding

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Tree	port-forwarding
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-block-reservation *boolean*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Reserve dynamic block for subscriber
Context	**configure** router *named-item-64* nat outside pool *named-item* port-forwarding dynamic-block-reservation *boolean*
Tree	dynamic-block-reservation
Description	When configured to **true**, the system reserves dynamic port block when the first port forward for the subscriber is created. The dynamic port block allocation is logged only if the block is being used and mappings are created. Dynamic port block reservation due to the port forward creation but without any dynamic mapping, is not logged. The reserved port block is released only when the last mapping in the block expires and there are no port forwards associated with the subscriber. The de-allocation log (syslog or RADIUS) is generated when the dynamic port block is completely released. Dynamic port block reservations can be enabled only if the configured maximum number of subscribers per outside IP addresses are less than or equal to the maximum number of configured port blocks per outside IP address. When configured to **false**, dynamic port blocks are not reserved when the first port forward for the subscriber is created.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

range-end *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	End of the wildcard range for port forwards

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Context	**configure** router *named-item-64* nat outside pool *named-item* port-forwarding range-end *number*
Tree	range-end
Description	This command configures the upper boundary of the wildcard port range dedicated to port forwarding in a NAT pool, whereas the **range-start** command configures the lower boundary (the starting port) of the wildcard port range dedicated to port forwarding in a NAT pool. If unconfigured, the **range-end** implicit value is set to 1023, that represents the end of the well-known port range that is always enabled. Port forwards are supported only in pools in NAPT mode. Pools in 1:1 mode do not support port-forwards.
Range	0 | 1023 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

port-reservation

Synopsis	Enter the **port-reservation** context
Context	**configure** router *named-item-64* nat outside pool *named-item* port-reservation
Tree	port-reservation
Introduced	25.3.R2
Platforms	SAR Gen 2

port-blocks *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Port block size for NAT subscribers
Context	**configure** router *named-item-64* nat outside pool *named-item* port-reservation port-blocks *number*
Tree	port-blocks
Description	In CGN, this command specifies the number of port-blocks per outside IP address in the NAT pool. The available ports per outside IP address (the end port minus the upper bound value of the static port-forwarding range) are divided into the number of port blocks specified in this command. This implicitly determines the size of each port block.

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For L2-aware NAT, this command can be configured only if the port block extensions (extended port blocks) are disabled. You must disable the **l2-aware port-block-extension** hierarchy in the NAT pool.

Range	0 to 64512
Notes	The following elements are part of a choice: **port-blocks** or **ports**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ports *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Size of the port block for NAT subscribers
Context	**configure** router *named-item-64* nat outside pool *named-item* port-reservation ports *number*
Tree	ports
Description	For carrier-grade NAT (CGN), this command specifies the size of port blocks for NAT subscribers in the NAT pool. For Layer 2 aware NAT, this command specifies the size of the initial port block of a subscriber in the pool. Additional port blocks (extended port blocks) for the Layer 2 aware subscriber must be explicitly enabled under the **l2-aware port-block-extension** hierarchy in the NAT pool. This command does not affect the size of extended port blocks. For deterministic pools, the port range begins with zero. However, for non-deterministic pools, the port range begins with one.
Range	0 to 64512
Notes	The following elements are part of a choice: **port-blocks** or **ports**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	NAT pool type
Context	**configure** router *named-item-64* nat outside pool *named-item* type *keyword*
Tree	type
Options	large-scale, l2-aware, wlan-gw-anchor
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

watermarks

Synopsis	Enable the **watermarks** context
Context	**configure** router *named-item-64* nat outside pool *named-item* watermarks
Tree	watermarks
Description	This command configures watermarks for NAT resources.
Introduced	25.3.R2
Platforms	SAR Gen 2

high *number*

Synopsis	High watermark percentage
Context	**configure** router *named-item-64* nat outside pool *named-item* watermarks high *number*
Tree	high
Description	This command configures the high threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

low *number*

Synopsis	Low watermark percentage
Context	**configure** router *named-item-64* nat outside pool *named-item* watermarks low *number*
Tree	low
Description	This command configures the low threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

network-domains

Synopsis	Enter the **network-domains** context
Context	**configure** router *named-item-64* network-domains
Tree	network-domains
Introduced	25.3.R2
Platforms	SAR Gen 2

network-domain [domain-name] *named-item*

Synopsis	Enter the **network-domain** list instance
Context	**configure** router *named-item-64* network-domains network-domain *named-item*
Tree	network-domain
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**domain-name**] *named-item*

Synopsis	Network domain name
Context	**configure** router *named-item-64* network-domains network-domain *named-item*
Tree	network-domain
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* network-domains network-domain *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation

Synopsis	Enter the **origin-validation** context
Context	**configure** router *named-item-64* origin-validation
Tree	origin-validation
Description	Commands in this context configure origin validation.
Introduced	25.3.R2
Platforms	SAR Gen 2

rpki-session [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **rpki-session** list instance

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Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	rpki-session
Description	This command configures a session with an RPKI local cache server by using the RPKI to Router (RPKI-RTR) protocol. Using these sessions, the router learns dynamic VRP entries expressing valid origin AS and prefix associations. SR OS supports the RPKI-RTR protocol over TCP/IPv4 or TCP/IPv6 transport. The router can set up an RPKI-RTR session using the base routing table (in-band) or the management router (out-of-band). Use the **configure router management** command to configure a session using the management port.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IPv4 or IPv6 address for the RPKI local cache server
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	rpki-session
Description	This command specifies an IPv4 address or an IPv6 address for the RPKI local cache server. If the IPv6 address is link-local, the interface name must be appended to the IPv6 address after a hyphen (-).
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RPKI session
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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connect-retry *number*

Synopsis	RPKI connect retry timer value
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* connect-retry *number*
Tree	connect-retry
Description	This command configures the time to wait between one failed TCP connection attempt and the next attempt.
Range	1 to 65535
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local address for the TCP connection setup
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* local-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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port *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination port used to connect to the cache server
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number*
Tree	port
Range	0 to 65535
Default	323
Introduced	25.3.R2
Platforms	SAR Gen 2

refresh-time

Synopsis	Enter the **refresh-time** context
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* refresh-time
Tree	refresh-time
Description	Commands in this context configure the refresh-time and hold-time intervals that are used for liveness detection of the RPKI-RTR session.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time *number*

Synopsis	Length of time that the session is considered Up
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* refresh-time hold-time *number*
Tree	hold-time
Description	This command specifies the length of time that the session is considered Up without any indication that the cache server is alive and reachable. The hold time must be at least twice the refresh time, otherwise the command configuration is not accepted. The timer is reset when any PDU from the cache server is received. When the hold time expires, the session is considered Down and the stale timer starts.
Range	60 to 65535

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Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Periodic Serial Query PDUs sent for liveness detection
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* refresh-time value *number*
Tree	value
Description	This command configures the refresh-time interval used for liveness detection of the RPKI-RTR session. The refresh time is reset when a Reset Query PDU or Serial Query PDU is sent to the cache server. When the timer expires, a new Serial Query PDU is sent with the last known serial number.
Range	30 to 32767
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-time *number*

Synopsis	Maximum time prefix origin validation remains usable
Context	**configure** router *named-item-64* origin-validation rpki-session *(ipv4-address-no-zone | ipv6-address-no-zone)* stale-time *number*
Tree	stale-time
Description	This command configures the maximum length of time that prefix origin validation records learned from the cache server remain usable after the RPKI-RTR session goes down. When the timer expires, all remaining stale entries associated with the session are deleted.
Range	60 to 3600
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

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static-entry [ip-prefix] *(ipv4-prefix | ipv6-prefix)* upto *number* origin-as *number*

Synopsis	Enter the **static-entry** list instance
Context	**configure** router *named-item-64* origin-validation static-entry *(ipv4-prefix | ipv6-prefix)* upto *number* origin-as *number*
Tree	static-entry
Description	Commands in this context configure a static VRP entry indicating that a specific origin AS is either valid or invalid for a specific IP prefix range. Static VRP entries are stored, along with dynamic VRP entries (learned from local cache servers using the RPKI-RTR protocol), in the origin validation database of the router. This database is used for determining the origin validation state of IPv4 and IPv6 BGP routes received over sessions with origin validation enabled. Static entries can be configured only in the **configure router origin-validation** context of the base router.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IPv4 or IPv6 address with the minimum prefix and length
Context	**configure** router *named-item-64* origin-validation static-entry *(ipv4-prefix | ipv6-prefix)* upto *number* origin-as *number*
Tree	static-entry
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

upto *number*

Synopsis	Maximum prefix length
Context	**configure** router *named-item-64* origin-validation static-entry *(ipv4-prefix | ipv6-prefix)* upto *number* origin-as *number*
Tree	static-entry
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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origin-as *number*

Synopsis	Origin AS number
Context	**configure** router *named-item-64* origin-validation static-entry *(ipv4-prefix | ipv6-prefix)* upto *number* origin-as *number*
Tree	static-entry
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

valid *boolean*

Synopsis	Designate mix of origin AS and prefix range as valid
Context	**configure** router *named-item-64* origin-validation static-entry *(ipv4-prefix | ipv6-prefix)* upto *number* origin-as *number* valid *boolean*
Tree	valid
Description	When configured to **true**, the router considers this route entry as a valid combination of the origin AS and prefix range. When configured to **false**, the router considers this route entry as an invalid combination of the origin AS and prefix range.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf [ospf-instance] *number*

Synopsis	Enter the **ospf** list instance
Context	**configure** router *named-item-64* ospf *number*
Tree	ospf
Description	Commands in this context create and configure an OSPF routing instance.
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ospf-instance**] *number*

Synopsis	OSPF instance
Context	**configure** router *named-item-64* ospf *number*
Tree	ospf
Range	0 to 31
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF instance
Context	**configure** router *named-item-64* ospf *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *keyword*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* ospf *number* advertise-router-capability *keyword*
Tree	advertise-router-capability
Options	false, link, area, as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-tunnel-link *boolean*

Synopsis	Allow router advertisement capabilities

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Context	**configure** router *named-item-64* ospf *number* advertise-tunnel-link *boolean*
Tree	advertise-tunnel-link
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

area [area-id] *ipv4-address*

Synopsis	Enter the **area** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address*
Tree	area
Description	Commands in this context configure an OSPF or OSPFv3 area. An area is a collection of network segments within an AS that are administratively grouped together.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**area-id**] *ipv4-address*

Synopsis	Area-ID attribute
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Synopsis	Enter the **area-range** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* area-range *ipv4-unicast-prefix*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-mask**] *ipv4-unicast-prefix*

Synopsis	IP prefix and subnet mask for the range used by the ABR
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* area-range *ipv4-unicast-prefix*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* area-range *ipv4-unicast-prefix* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole-aggregate *boolean*

Synopsis	Install a low priority blackhole route to avoid loops
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* blackhole-aggregate *boolean*

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Tree	blackhole-aggregate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

database-export-exclude *boolean*

Synopsis	Exclude IGP link-state OSPF area info into TE-DB
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* database-export-exclude *boolean*
Tree	database-export-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Type 3 Summary-LSA/OSPFv3 inter-area-prefix-LSA route
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Route imported as Summary Type 3/Inter-Area-Prefix-LSA
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name*
Tree	interface
Description	Commands in this context configure the attributes of the OSPF area interface. Unless they are explicitly configured, interfaces are not activated by default in any interior gateway protocol such as OSPF.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name*
Tree	interface
Description	This command specifies the IP interface name. Interface names must be unique within the group of defined IP interfaces for **configure router interface** and **configure service ies interface** commands. An interface name cannot be in the form of an IP address. Interface names can be a string composed of printable, 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. If the IP interface name does not exist or does not have an IP address configured, an error message is returned. If the IP interface exists in a different area it is moved to this area.
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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adjacency-set [id] *reference*

Synopsis	Add a list entry for **adjacency-set**
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* adjacency-set *reference*
Tree	adjacency-set
Max. instances	1024
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *reference*

Synopsis	Adjacency set identity
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* adjacency-set *reference*
Tree	adjacency-set
Reference	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-sid

Synopsis	Enable the **adjacency-sid** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* adjacency-sid
Tree	adjacency-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Adjacency SID label
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* adjacency-sid label *number*

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Tree	label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-subnet *boolean*

Synopsis	Advertise point-to-point interfaces as subnet routes
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* advertise-subnet *boolean*
Tree	advertise-subnet
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-key *encrypted-leaf*

Synopsis	Authentication key
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type used on OSPF interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

remain-down-on-failure *boolean*

Synopsis	Force adjacency down on failure until session returns
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness remain-down-on-failure *boolean*
Tree	remain-down-on-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict *boolean*

Synopsis	Enable BFD strict mode
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness strict *boolean*
Tree	strict
Description	When configured to **true**, the system uses BFD strict-mode. BFD strict-mode mandates that an active BFD session must exist between the OSPF neighbors before establishing a full adjacency. When configured to **true**, the router uses Link-Local Signaling (LLS) with the B-flag set to instruct the OSPF neighbors that BFD must be enabled on the link. BFD strict-mode requires both sides to have the B-flag set. During OSPFv3 BFD strict-mode operations, the router advertises the local interface IPv4 address TLV using LLS, but the SR OS router continues to use IPv6-based BFD sessions for both the IPv4 and IPv6 address families.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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strict-mode-holddown *number*

Synopsis	Adjacency up time delay after BFD session establishment
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness strict-mode-holddown *number*
Tree	strict-mode-holddown
Description	This command configures a delay timer before bringing up the OSPF adjacency after the BFD session establishment. Holddown helps mitigate potential routing churn when BFD sessions are unstable. The holddown timer is reset when a BFD session operationally toggles.
Range	1 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-advertise-prefix *reference*

Synopsis	Policy to conditionally advertise interface prefixes
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* conditional-advertise-prefix *reference*
Tree	conditional-advertise-prefix
Description	This command specifies the policy that allows IS-IS, OSPF, and OSPFv3 to selectively advertise system or loopback interface prefixes (including associated SIDs and SRv6 locators) only when conditions defined in the route policy are met. The route policy evaluates the presence or absence of specific routes in the routing table, typically using constructs like route-exists. If the policy evaluates to accept, the interface prefix is advertised; if not, the prefix is suppressed.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.10.R1
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* dead-interval *number*
Tree	dead-interval
Range	2 to 65535

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Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-normalization

Synopsis	Enable the **delay-normalization** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* delay-normalization
Tree	delay-normalization
Description	Commands in this context configure delay normalization for the interface within the IGP instance. When configured, the normalized delay is used by the TLVs within the IGP link-state packets. When unconfigured, the measured delay is used by the respective TLVs within the IGP link-state packets.
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-tolerance-interval *number*

Synopsis	Interval between two delay values on the interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* delay-normalization delay-tolerance-interval *number*
Tree	delay-tolerance-interval
Description	This command defines the interval used by the IGP to differentiate between two delay values.
Range	1 to 10000000
Units	microseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-delay *number*

Synopsis	Minimum delay on the interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* delay-normalization minimum-delay *number*

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Tree	minimum-delay
Range	1 to 10000000
Units	microseconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo [flex-algo-id] *number*

Synopsis	Enter the **flex-algo** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* flex-algo *number*
Tree	flex-algo
Description	Commands in this context configure the attributes of OSPFv2 flexible algorithms interface.
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

[**flex-algo-id**] *number*

Synopsis	Flexible algorithm ID
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* flex-algo *number*
Tree	flex-algo
Range	128 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

node-sid

Synopsis	Enable the **node-sid** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* flex-algo *number* node-sid

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Tree	node-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for this interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* flex-algo *number* node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* flex-algo *number* node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2

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Platforms SAR Gen 2

interface-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis Interface type

Context **configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* interface-type *keyword*

Tree interface-type

Description This command specifies the interface type.

broadcast - Broadcast network

To significantly improve adjacency forming and network convergence, configure a network as point-to-point if only two routers are connected, even if the network is a broadcast media such as Ethernet.

non-broadcast - Non-broadcast network

point-to-point - Point-to-point link

Set the interface type of an Ethernet link to **point-to-point** to avoid having to carry the broadcast adjacency maintenance overhead if the Ethernet link provided is used as a point-to-point.

p2mp-nbma - Point-to-multipoint on a link without broadcast or multicast support

No designated router or backup designated router is elected on this type of interface and all OSPF neighbors connect through individual point-to-point links. Only VPRN and IES services interfaces support this interface type.

secondary - Multiple secondary adjacencies allowed

A **secondary** interface allows multiple secondary adjacencies, in addition to the primary adjacency, to be established over a single IP interface. This interface type can also be applied to the system interface and to loopback interfaces to allow them to participate in multiple areas, although no adjacencies are formed over these types of interfaces.

Options broadcast, non-broadcast, point-to-point, secondary, p2mp-nbma

Introduced 25.3.R2

Platforms SAR Gen 2

load-balancing-weight *number*

Synopsis Load balancing weight for an OSPF interface

Context **configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* load-balancing-weight *number*

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Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enter the **loopfree-alternate** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Enable fast reroute at OSPF primary interface level
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate exclude *boolean*
Tree	exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-map

Synopsis	Enable the **policy-map** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map
Tree	policy-map
Introduced	25.3.R2
Platforms	SAR Gen 2

route-nh-template *reference*

Synopsis	Route next hop policy template name

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Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map route-nh-template *reference*
Tree	route-nh-template
Reference	**configure** routing-options route-next-hop-policy template *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-filter-out *keyword*

Synopsis	LSA flooding reduction
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* lsa-filter-out *keyword*
Tree	lsa-filter-out
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

message-digest-key [key-id] *number*

Synopsis	Enter the **message-digest-key** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* message-digest-key *number*
Tree	message-digest-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Message digest index
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* message-digest-key *number*
Tree	message-digest-key
Range	1 to 255
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

md5 *encrypted-leaf*

Synopsis	MD5 hash key
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* message-digest-key *number* md5 *encrypted-leaf*
Tree	md5
Description	This command specifies the MD5 hash key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Route cost metric for the interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* metric *number*
Tree	metric
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	MTU for the OSPF to use on the interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* mtu *number*
Tree	mtu
Range	512 to 9786
Introduced	25.3.R2

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Platforms SAR Gen 2

neighbor [address] *ipv4-unicast-address*

Synopsis Add a list entry for **neighbor**

Context **configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* neighbor *ipv4-unicast-address*

Tree neighbor

Introduced 25.3.R2

Platforms SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis IPv4 address of the OSPFv2 neighbor

Context **configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* neighbor *ipv4-unicast-address*

Tree neighbor

String format 'ipv4-address' must use only digits and dots (no %zone)
'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

node-sid

Synopsis Enable the **node-sid** context

Context **configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* node-sid

Tree node-sid

Description Commands in this context configure a node SID index or label value for the prefix representing the primary address of a network interface of type system or loopback. A separate SID value can be configured for each IPv4 and IPv6 primary address of the interface. The secondary address of an IPv4 interface cannot be assigned a node SID index and does not inherit the SID of the primary IPv4 address.

In OSPFv2 and OSPFv3, the node SID is configured in the primary area but is inherited in any other area in which the interface is added as secondary.

This command fails if the network interface is not a loopback type or if the interface is defined in an IES or VPRN context. Assigning the same SID index or label value to the same interface in two different IGP instances is not allowed within the same node.

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The value of the label or index SID is taken from the range configured for this IGP instance. When using the global mode of operation, the segment routing module checks that the same index or label value is not assigned to more than one loopback interface address. When using the per-instance mode of operation, this check is not required because the index and, therefore, the label ranges of IGP instances are not allowed to overlap.

The **clear-n-flag** option allows the user to clear the N-flag (node-sid flag) in an OSPF or OSPF3 prefix SID sub-TLV originated for the prefix of a loopback interface on the system. By default, the prefix SID sub-TLV for the prefix of a loopback interface is tagged as a node SID; that is, it belongs to this node only. However, to configure and advertise an anycast SID using the same loopback interface prefix on multiple nodes, the user must clear the N-flag to assure interoperability with third-party implementations. This may perform a strict check on the receive end and drop duplicate prefix SID sub-TLVs when the N-flag is set.

The SR OS implementation is relaxed on the receive end and accepts duplicate prefix SIDs with the N-flag set or clear. SR OS resolves to the closest owner, or owners if ECMP, of the prefix SID cost-wise.

Introduced 25.3.R2

Platforms SAR Gen 2

clear-n-flag *boolean*

Synopsis Clear the N-flag in an OSPF prefix

Context **configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* node-sid clear-n-flag *boolean*

Tree clear-n-flag

Description When configured to **true**, this command allows the user to clear the N-flag in an OSPF prefix SID sub-TLV originated for the prefix of a loopback interface on the system.

When configured to **false**, the N-flag in an OSPF prefix SID sub-TLV originated for the prefix of a loopback interface on the system is not cleared.

When the user wants to configure and advertise an anycast SID using the same loopback interface prefix on multiple nodes, the user must clear the N-flag to assure interoperability with third-party implementations. This may perform a strict check on the receive end and drop duplicate prefix SID sub-TLVs when the N-flag is set.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

index *number*

Synopsis Node SID index for this interface

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Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Advertise passive interfaces as OSPF interfaces
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* passive *boolean*
Tree	passive
Introduced	25.3.R2
Platforms	SAR Gen 2

poll-interval *number*

Synopsis	Interval for Hellos to non-adjacent OSPF NBMA neighbor
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* poll-interval *number*
Tree	poll-interval
Max. range	0 to 4294967295
Units	seconds

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Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Interface priority in the DR election on the subnet
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* priority *number*
Tree	priority
Range	0 to 255
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority *keyword*

Synopsis	RIB priority for OSPF
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* rib-priority *keyword*
Tree	rib-priority
Options	high
Introduced	25.3.R2

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Platforms	SAR Gen 2

sid-protection *boolean*

Synopsis	Allow adjacency SID protection by LFA and remote LFA
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* sid-protection *boolean*
Tree	sid-protection
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* interface *interface-name* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate-exclude *boolean*

Synopsis	Exclude interfaces in OSPF areas in SPF LFA computation
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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nssa

Synopsis	Enable the **nssa** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa
Tree	nssa
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Synopsis	Enter the **area-range** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa area-range *ipv4-unicast-prefix*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[ip-prefix-mask] *ipv4-unicast-prefix*

Synopsis	IP prefix and subnet mask for the range used by the ABR
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa area-range *ipv4-unicast-prefix*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa area-range *ipv4-unicast-prefix* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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originate-default-route

Synopsis	Enable the **originate-default-route** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa originate-default-route
Tree	originate-default-route
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-check *boolean*

Synopsis	Default route to remove if there is no adjacency
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa originate-default-route adjacency-check *boolean*
Tree	adjacency-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

type-nssa *boolean*

Synopsis	Generate a default route using NSSA-LSA type
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa originate-default-route type-nssa *boolean*
Tree	type-nssa
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-external *boolean*

Synopsis	Redistribute external routes into the NSSA
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa redistribute-external *boolean*
Tree	redistribute-external
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the NSSA on an ABR
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* nssa summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

stub

Synopsis	Enable the **stub** context
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* stub
Tree	stub
Introduced	25.3.R2
Platforms	SAR Gen 2

default-metric *number*

Synopsis	Metric used by ABR for default route into the stub area
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* stub default-metric *number*
Tree	default-metric
Range	1 to 16777214
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the stub area on an ABR

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Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* stub summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-link [router-id] *ipv4-address* transit-area *reference*

Synopsis	Enter the **virtual-link** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-id**] *ipv4-address*

Synopsis	Router identity of the virtual link neighbor
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-area *reference*

Synopsis	Transit area linking the backbone to not-connected area
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Reference	**configure** router *named-item-64* ospf *number* area *ipv4-address*
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type used on OSPF interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-digest-key [key-id] *number*

Synopsis	Enter the **message-digest-key** list instance
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* message-digest-key *number*
Tree	message-digest-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Message digest index
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* message-digest-key *number*
Tree	message-digest-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

md5 *encrypted-leaf*

Synopsis	MD5 hash key
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* message-digest-key *number* md5 *encrypted-leaf*
Tree	md5
Description	This command specifies the MD5 hash key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** router *named-item-64* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

asbr

Synopsis	Enable the **asbr** context
Context	**configure** router *named-item-64* ospf *number* asbr
Tree	asbr
Introduced	25.3.R2
Platforms	SAR Gen 2

trace-path *(number | keyword)*

Synopsis	Domain identity

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Context	**configure** router *named-item-64* ospf *number* asbr trace-path *(number | keyword)*
Tree	trace-path
Range	0 to 31
Options	none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

compatible-rfc1583 *boolean*

Synopsis	OSPF summary and external route calculations
Context	**configure** router *named-item-64* ospf *number* compatible-rfc1583 *boolean*
Tree	compatible-rfc1583
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

database-export

Synopsis	Enable the **database-export** context
Context	**configure** router *named-item-64* ospf *number* database-export
Tree	database-export
Description	Commands in this context enable the population of the extended TE Database (TE-DB) with the link-state information from a specific IGP instance. This information includes the IGP, TE, and SR information, prefix SID sub-TLV, adjacency SID sub-TLV, and router SR capability TLV.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ls-identifier

Synopsis	Enable the **bgp-ls-identifier** context
Context	**configure** router *named-item-64* ospf *number* database-export bgp-ls-identifier
Tree	bgp-ls-identifier

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Description	Commands in this context correlate, along with the Autonomous System Number (ASN), the BGP-LS NLRI advertisements of multiple BGP-LS speakers of the same IGP domain.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	BGP-LS ID sent in the BGP-LS NLRI
Context	**configure** router *named-item-64* ospf *number* database-export bgp-ls-identifier value *number*
Tree	value
Description	This command configures the BGP-LS ID to export. If an NRC-P network domain has multiple IGP domains, a user must configure BGP-LS speakers within each IGP domain with the same unique ASN, BGP-LS ID tuple. The BGP-LS identifier is optional and is only sent in a BGP-LS NLRI if configured in the IGP instance of an IGP domain. **Note:** If this IGP instance participates in traffic engineering with RSVP-TE or SR-TE, the **traffic-engineering** command configuration is not strictly required because enabling the extended TE-DB populates this information automatically. However, Nokia recommends enabling the **traffic-engineering** command to make the configuration consistent with other routers in the network that do not require the enabling of the extended TE-DB.
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-identifier *number*

Synopsis	IGP instance in the BGP-LS NLRI
Context	**configure** router *named-item-64* ospf *number* database-export igp-identifier *number*
Tree	igp-identifier
Description	This command identifies the IGP instance in the BGP-LS NLRI when a router has interfaces participating in multiple IGP instances. The concept of an instance ID specified for OSPF is local subnet significant (RFC 6549). An IGP identifier value can be configured to be unique within a specified IGP domain when the router sends the IGP link state information using BGP-LS.
Max. range	0 to 18446744073709551615
Introduced	25.3.R2

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Platforms	SAR Gen 2

reachable-ls-only *boolean*

Synopsis	Encode only reachable link-state information
Context	**configure** router *named-item-64* ospf *number* database-export reachable-ls-only *boolean*
Tree	reachable-ls-only
Description	When configured to **true**, the router, acting as a BGP-LS producer, must withdraw all link-state objects it has advertised in BGP, in accordance with section 5.9 of RFC 9552. This withdrawal occurs when the node that originated the corresponding LSPs is determined to be unreachable in the IGP based on the failure of a reachability check for that node. This withdrawal operation assists network controllers in assessing a reachable IGP topology, even in networks with segmented areas. For backward compatibility, the default behavior remains unchanged. When configure to **false**, the router continues to send link-state objects even for links that fail an IGP reachability check.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enter the **entropy-label** context
Context	**configure** router *named-item-64* ospf *number* entropy-label
Tree	entropy-label
Introduced	25.3.R2
Platforms	SAR Gen 2

override-tunnel-elc *boolean*

Synopsis	Enable override of received ELC advertisements
Context	**configure** router *named-item-64* ospf *number* entropy-label override-tunnel-elc *boolean*
Tree	override-tunnel-elc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** router *named-item-64* ospf *number* export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** router *named-item-64* ospf *number* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** router *named-item-64* ospf *number* export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies that determine exported routes
Context	**configure** router *named-item-64* ospf *number* export-policy *reference*
Tree	export-policy
Description	This command configures export routing policies for the routes exported from the routing table to IS-IS. If the export policy is undefined, the system does not export non IS-IS routes from the routing table manager to IS-IS.

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If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.

If the **aggregate** command is also configured in the **configure router** context, the aggregation is applied before the export policy is applied.

Routing policies are created in the **configure router policy-options** context.

Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

external-db-overflow

Synopsis	Enable the **external-db-overflow** context
Context	**configure** router *named-item-64* ospf *number* external-db-overflow
Tree	external-db-overflow
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Time during which the router operates in overload
Context	**configure** router *named-item-64* ospf *number* external-db-overflow interval *number*
Tree	interval
Range	0 to 2147483647
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Number of external LSA at which overload is triggered
Context	**configure** router *named-item-64* ospf *number* external-db-overflow limit *number*
Tree	limit

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Range	0 to 2147483647
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

external-preference *number*

Synopsis	Preference for OSPF external routes
Context	**configure** router *named-item-64* ospf *number* external-preference *number*
Tree	external-preference
Range	1 to 255
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

flexible-algorithms

Synopsis	Enter the **flexible-algorithms** context
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms
Tree	flexible-algorithms
Description	Commands in this context configure the OSPFv2 parameters for flexible algorithm participation.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of flexible algorithm support
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms admin-state *keyword*
Tree	admin-state
Description	This command specifies the administrative state of the support of flexible algorithm IGP LSDB extensions.
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

advertise-admin-group *keyword*

Synopsis	Administrative group TLV to advertise
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms advertise-admin-group *keyword*
Tree	advertise-admin-group
Description	This command configures the type of Administrative Group TLV the router advertises as an IGP link attribute. This command is configured for this IGP instance.
Options	prefer-ag, eag-only, ag-eag
Default	prefer-ag
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo [flex-algo-id] *number*

Synopsis	Enter the **flex-algo** list instance
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms flex-algo *number*
Tree	flex-algo
Description	Commands in this context configure the attributes of the OSPFv2 flexible algorithm. The maximum unique flexible algorithms can be configured on a router across all configured OSPFv2 instances. In each OSPF flexible algorithm configuration context, the OSPFv2 instance participation can be either enabled or disabled, and it configures the advertising of a locally-configured flexible algorithm definition. When flexible algorithm is enabled in an OSPF instance, it is enabled for all areas within the OSPF instance.
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

[**flex-algo-id**] *number*

Synopsis	Flexible algorithm ID
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms flex-algo *number*
Tree	flex-algo

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Range	128 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *reference*

Synopsis	Flexible Algorithm Definition advertisement
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms flex-algo *number* advertise *reference*
Tree	advertise
Description	This command enables the advertisement of a locally configured Flexible Algorithm Definition (FAD). The winning FAD that a router uses must be consistent with the winning FAD on all other routers, which avoids routing loops and traffic blackholing. The winning FAD is selected using a tiebreaker algorithm that first selects the highest advertised FAD priority followed by the highest system ID.
Reference	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms flex-algo *number* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

micro-loop-avoidance

Synopsis	Enable the **micro-loop-avoidance** context
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms flex-algo *number* micro-loop-avoidance
Tree	micro-loop-avoidance

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Description	When configured, the system enables micro-loop avoidance for an SR-OSPF flexible algorithm, and consequently, inherits the FIB delay timer from the SR-OSPF **configure router ospf segment-routing** context. When this command is configured, FIB updates are delayed before the system programs new primary next hops to avoid micro-loops. When configured, the feature applies to the following contexts: • OSPFv2 SR-OSPF IPv4 tunnel (node SID) • IPv4 and IPv6 SR-TE LSPs that use a node SID in their segment list • IPv4 and IPv6 SR policies that use a node SID in their segment list When micro-loop-avoidance is disabled (by removing this command from the configuration), the system forces any running FIB delay to expire immediately and programs the new next hops for all impacted node SIDs. When disabled, micro-loop avoidance is disabled instantaneously and will be disabled for the next SPF runs. Micro-loop avoidance remains disabled until it is re-enabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

participate *boolean*

Synopsis	Allow participation in the Flexible Algorithm
Context	**configure** router *named-item-64* ospf *number* flexible-algorithms flex-algo *number* participate *boolean*
Tree	participate
Description	When configured to **true**, the router advertises the capability to participate in a flexible algorithm within the IS-IS Router Capability TLV. A router only advertises participation when the winning FAD can be supported, which includes segment routing support. When configured to **false**, flexible algorithm participation is not enabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** router *named-item-64* ospf *number* graceful-restart
Tree	graceful-restart
Description	Commands in this context enable OSPF graceful restart (GR) to minimize service interruption.

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When the control plane of a GR-capable router fails or restarts, the neighboring routers (GR helpers) temporarily preserve OSPF forwarding information. Traffic continues to be forwarded to the restarting router using the last-known forwarding tables. If the control plane of the restarting router becomes operationally and administratively up within the grace period, the restarting router resumes normal OSPF operation. If the grace period expires, the restarting router is presumed inactive and the OSPF topology is recalculated to route traffic around the failure.

Introduced 25.3.R2

Platforms SAR Gen 2

helper-mode *boolean*

Synopsis Enable graceful restart helper for OSPF

Context **configure** router *named-item-64* ospf *number* graceful-restart helper-mode *boolean*

Tree helper-mode

Description When configured to **true**, the router operates in OSPF graceful restart helper mode and assists restarting neighbors by maintaining adjacencies and forwarding state during their graceful restart interval.

When configured to **false**, the router does not provide helper support and does not preserve adjacency or forwarding state for neighbors performing a graceful restart.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

helper-resync-timeout *number*

Synopsis Maximum resynchronization period

Context **configure** router *named-item-64* ospf *number* graceful-restart helper-resync-timeout *number*

Tree helper-resync-timeout

Description This command configures the maximum resynchronization period. If the resynchronization takes longer than the configured value, the graceful restart process stops, and the OSPF neighbor session falls back to the ExStart state for normal adjacency establishment.

Range 120 to 900

Units seconds

Default 120

Introduced 26.3.R1

Platforms SAR Gen 2

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protocol

Synopsis	Enter the **protocol** context
Context	**configure** router *named-item-64* ospf *number* graceful-restart protocol
Tree	protocol
Description	Commands in this context configure which RFC is used for OSPF graceful restart signaling. If both protocols are enabled, the OSPF interface automatically uses the method indicated by the first received graceful restart signaling packet on that interface.
Introduced	26.3.R1
Platforms	SAR Gen 2

lls-restart-signaling *boolean*

Synopsis	Enable LLS restart signaling protocol
Context	**configure** router *named-item-64* ospf *number* graceful-restart protocol lls-restart-signaling *boolean*
Tree	lls-restart-signaling
Description	When configured to **true**, the system enables support for RFC 4811 and RFC 4812. When configured to **false**, the system disables support for RFC 4811 and RFC 4812.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Enable standard protocol for restart signaling
Context	**configure** router *named-item-64* ospf *number* graceful-restart protocol standard *boolean*
Tree	standard
Description	When configured to **true**, the system enables support for RFC 3623. When configured to **false**, the system disables support for RFC 3623.
Default	true
Introduced	26.3.R1
Platforms	SAR Gen 2

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strict-lsa-checking *boolean*

Synopsis	Perform strict LSA checking during graceful restart
Context	**configure** router *named-item-64* ospf *number* graceful-restart strict-lsa-checking *boolean*
Tree	strict-lsa-checking
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-shortcut

Synopsis	Enter the **igp-shortcut** context
Context	**configure** router *named-item-64* ospf *number* igp-shortcut
Tree	igp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IGP shortcuts
Context	**configure** router *named-item-64* ospf *number* igp-shortcut admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-sr-over-srte *boolean*

Synopsis	Enable SR over SR-TE LSPs
Context	**configure** router *named-item-64* ospf *number* igp-shortcut allow-sr-over-srte *boolean*
Tree	allow-sr-over-srte
Description	When configured to **true**, the router only allows SR-MPLS SRv4 and SRv6 IGP shortcuts to use SR-TE LSPs with **allow-sr-over-srte** explicitly enabled with an adjacency SID as top SID in the SR-TE LSP. IPv4 and IPv6 addresses can use all

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available SR-TE LSPs as IGP shortcuts regardless of the explicit **allow-sr-over-srte** configuration.

Under ECMP, when this command is configured to **true**, preference is given to the SR-TE LSPs with **allow-sr-over-srte** explicitly configured over the LSPs that do not have **allow-sr-over-srte** configured.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-next-hop

Synopsis	Enter the **tunnel-next-hop** context
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop
Tree	tunnel-next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for tunnel next-hop
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop family *keyword*
Tree	family
Options	ipv4, srv4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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resolution *keyword*

Synopsis	Resolution state for IGP shortcut tunnels
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop family *keyword* resolution *keyword*
Tree	resolution
Options	none, filter, any, match-family-ip
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter rsvp *boolean*
Tree	rsvp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *boolean*

Synopsis	Use SR-TE tunneling for next-hop resolution
Context	**configure** router *named-item-64* ospf *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter sr-te *boolean*
Tree	sr-te

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy names for routes from IGP to route table
Context	**configure** router *named-item-64* ospf *number* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-over-rsvp *boolean*

Synopsis	Allow LSP over RSVP in this OSPF instance
Context	**configure** router *named-item-64* ospf *number* ldp-over-rsvp *boolean*
Tree	ldp-over-rsvp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-sync *boolean*

Synopsis	Configure IGP-LDP synchronization for interfaces
Context	**configure** router *named-item-64* ospf *number* ldp-sync *boolean*
Tree	ldp-sync
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate
Tree	loopfree-alternate
Description	Commands in this context enable Loop-Free Alternate (LFA) computation by SPF under the IS-IS routing protocol level or under the OSPF routing protocol instance. When this command is enabled, it instructs the IGP SPF to attempt to pre-compute both a primary next hop and an LFA next hop for every learned prefix. IS-IS computes the primary SPF first and then computes the LFA SPF. The LFA backup next hop is only available after the LFA SPF is completed. When found, the LFA next hop is populated into the routing table along with the primary next hop for the prefix.
Introduced	25.3.R2
Platforms	SAR Gen 2

augment-route-table *boolean*

Synopsis	Attach remote LFA information to RTM entries
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate augment-route-table *boolean*
Tree	augment-route-table
Description	When configured to **true**, this command enables IS-IS to attach remote LFA-specific information to RTM entries for use by protocols such as LDP. When configured to **false**, rLFA-specific information is not added to RTM entries.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude

Synopsis	Enter the **exclude** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate exclude
Tree	exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-policy *reference*

Synopsis	Policy to exclude prefixes from LFA SPF calculation
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Description	This command specifies the name of the policy for the prefixes to exclude from the LFA SPF calculation. An excluded prefix is not included in LFA calculation regardless of its priority. The prefix tag is, however, used in the main SPF.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-homed-prefix

Synopsis	Enable the **multi-homed-prefix** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate multi-homed-prefix
Tree	multi-homed-prefix
Description	Commands in this context configure a multihomed prefix LFA for both RTM routes (IP FRR) and SR-OSPF tunnels. SR-OSPF tunnels enable multihomed prefix extension in both algorithm 0 and flexible-algorithm numbers. This feature makes use of the multihomed prefix model described in RFC 8518 to compute a backup IP next hop using an alternate ABR or ASBR for external prefixes and to an alternate router owner for local anycast prefixes. This feature further enhances the multihomed prefix backup path calculation beyond RFC 8518 with the addition of repair tunnels that make use of a PQ node or a P-Q set to reach the alternate exit ABR or ASBR of external prefixes or the alternate owner router of local anycast prefixes. The computed IP next-hop based backup path is added to OSPF routes of external /32 prefixes (OSPFv2 routes types 3, 4, 5, and 7) and local /32 anycast prefixes in the RTM if the prefix is not protected by base LFA or if the user set leaf preference value to all. The user must enable the ip-fast-reroute leaf to have these backup paths programmed into the FIB in datapath. The computed IP next hop or repair tunnel based backup path is also programmed for SR-OSPF node SID tunnels of external /32 prefixes and to /32 prefixes in same area as

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	the computing node S and which are advertised by multiple routers (anycast prefix) in both algorithm 0 and flexible-algorithm numbers.
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *keyword*

Synopsis	Multi-homed prefix LFA backup path preference
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate multi-homed-prefix preference *keyword*
Tree	preference
Options	none, all
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-lfa

Synopsis	Enable the **remote-lfa** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate remote-lfa
Tree	remote-lfa
Introduced	25.3.R2
Platforms	SAR Gen 2

max-pq-cost *number*

Synopsis	Destination max cost for reverse SPF calculation
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate remote-lfa max-pq-cost *number*
Tree	max-pq-cost
Max. range	0 to 4294967295
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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node-protect

Synopsis	Enable the **node-protect** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate remote-lfa node-protect
Tree	node-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

max-pq-nodes *number*

Synopsis	Maximum number of PQ nodes found in the LFA SPFs
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate remote-lfa node-protect max-pq-nodes *number*
Tree	max-pq-nodes
Range	1 to 32
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

ti-lfa

Synopsis	Enable the **ti-lfa** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate ti-lfa
Tree	ti-lfa
Description	Commands in this context enable the use of the Topology Independent Loop-Free Alternate (TI-LFA) algorithm used in the LFA Shortest Path First (SPF) calculation for this OSPF instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sr-frr-labels *number*

Synopsis	Maximum number of labels the TI-LFA backup path can use
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate ti-lfa max-sr-frr-labels *number*
Tree	max-sr-frr-labels

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Description	This command configures the maximum number of labels allowed in the segment list of the TI-LFA repair tunnel. A higher value results in better coverage by TI-LFA at the expense of increased packet encapsulation overhead. The TI-LFA algorithm uses this value to limit the search for the Q-node from the P-node on the post-convergence path.
Range	0 to 3
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-path-expand *boolean*

Synopsis	Expand the neighbor path
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate ti-lfa neighbor-path-expand *boolean*
Tree	neighbor-path-expand
Description	When configured to **true**, the router uses the TI-LFA backup path computation algorithm for the protection of an IPv4 SR-OSPF node SID of a neighbor and of an adjacency SID over a link to that neighbor to avoid traffic loops when the neighbor node fails. The SR-OSPF TI-LFA expanded neighbor backup path expands the path from the Q node to the destination node, which is the neighbor node in this case, by first visiting the penultimate node and then riding an unprotected adjacency SID over a link to the destination node. When applied to the backup path of a neighbor IPv4 SR-OSPF node SID or of an adjacency SID over a link to this neighbor, it forces the traffic to drop at the penultimate node and does not loop in case of neighbor node failure.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

node-protect

Synopsis	Enable the **node-protect** context
Context	**configure** router *named-item-64* ospf *number* loopfree-alternate ti-lfa node-protect
Tree	node-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

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multi-instance *boolean*

Synopsis	Enable OSPF Multi Instance Extensions
Context	**configure** router *named-item-64* ospf *number* multi-instance *boolean*
Tree	multi-instance
Description	When configured to **true**, the Base router supports RFC 6549, OSPFv2 Multi-Instance Extensions. This support is enabled per instance and allows flexibility when migrating a particular instance from classic OSPFv2 to a multi-instance OSPFv2.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import *boolean*

Synopsis	Submit routes into the multicast Route Table Manager
Context	**configure** router *named-item-64* ospf *number* multicast-import *boolean*
Tree	multicast-import
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import-policy *reference*

Synopsis	Import policy to submit IGP routes to the multicast RTM
Context	**configure** router *named-item-64* ospf *number* multicast-import-policy *reference*
Tree	multicast-import-policy
Description	This command specifies the policy used by OSPF to submit routes to the multicast RTM. This command applies only when the **configure router ospf multicast-import** command is enabled. By default, enabling **multicast-import** causes OSPF to submit all IGP routes to the multicast RTM. Configuring this command allows the user to specify prefixes in the policy prefix list to control OSPF route submission.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	1
Notes	This element is ordered by the user.

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Introduced	25.10.R1
Platforms	SAR Gen 2

overload *boolean*

Synopsis	Change local router state to appear overloaded
Context	**configure** router *named-item-64* ospf *number* overload *boolean*
Tree	overload
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-1 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** router *named-item-64* ospf *number* overload-include-ext-1 *boolean*
Tree	overload-include-ext-1
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-2 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** router *named-item-64* ospf *number* overload-include-ext-2 *boolean*
Tree	overload-include-ext-2
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-stub *boolean*

Synopsis	Advertise all stub interfaces with max metric value
Context	**configure** router *named-item-64* ospf *number* overload-include-stub *boolean*
Tree	overload-include-stub

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-on-boot

Synopsis	Enable the **overload-on-boot** context
Context	**configure** router *named-item-64* ospf *number* overload-on-boot
Tree	overload-on-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time during which the router operates in overload state
Context	**configure** router *named-item-64* ospf *number* overload-on-boot timeout *number*
Tree	timeout
Range	1 to 1800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Preference for OSPF internal routes
Context	**configure** router *named-item-64* ospf *number* preference *number*
Tree	preference
Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-bandwidth *number*

Synopsis	Bandwidth to reference default costing of interfaces

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Context	**configure** router *named-item-64* ospf *number* reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 18446744073709551615
Units	kilobps
Default	100000000
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority

Synopsis	Enter the **rib-priority** context
Context	**configure** router *named-item-64* ospf *number* rib-priority
Tree	rib-priority
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** router *named-item-64* ospf *number* rib-priority high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *reference*

Synopsis	Higher priority list used during OSPF route calculation
Context	**configure** router *named-item-64* ospf *number* rib-priority high prefix-list *reference*
Tree	prefix-list
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-id *router-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Unique router ID for the OSPF instance
Context	**configure** router *named-item-64* ospf *number* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

rtr-adv-lsa-limit

Synopsis	Enable the **rtr-adv-lsa-limit** context
Context	**configure** router *named-item-64* ospf *number* rtr-adv-lsa-limit
Tree	rtr-adv-lsa-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Log the event without triggering overload
Context	**configure** router *named-item-64* ospf *number* rtr-adv-lsa-limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-count *number*

Synopsis	Max number of LSAs one router can advertise
Context	**configure** router *named-item-64* ospf *number* rtr-adv-lsa-limit max-lsa-count *number*
Tree	max-lsa-count

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Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-timeout *(number | keyword)*

Synopsis	Maximum time in overload after LSA limit is reached
Context	**configure** router *named-item-64* ospf *number* rtr-adv-lsa-limit overload-timeout *(number | keyword)*
Tree	overload-timeout
Range	1 to 1800
Units	seconds
Options	forever
Default	forever
Introduced	25.3.R2
Platforms	SAR Gen 2

warning-threshold *number*

Synopsis	Percentage of the max LSA count that causes a warning
Context	**configure** router *named-item-64* ospf *number* rtr-adv-lsa-limit warning-threshold *number*
Tree	warning-threshold
Range	0 to 100
Units	percent
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-routing

Synopsis	Enter the **segment-routing** context
Context	**configure** router *named-item-64* ospf *number* segment-routing
Tree	segment-routing
Introduced	25.3.R2

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Platforms SAR Gen 2

adj-sid-hold *(number | keyword)*

Synopsis Adjacency SID hold time

Context **configure** router *named-item-64* ospf *number* segment-routing adj-sid-hold *(number | keyword)*

Tree adj-sid-hold

Description This command configures a timer to hold the ILM or LTN of an adjacency SID following a failure of the adjacency.

When an adjacency to a neighbor fails, the following procedure is followed for both an LFA protected and the LFA unprotected SID of this adjacency in SR-MPLS. An adjacency can have both types of SIDs assigned by configuration. An LFA protected adjacency SID is eligible for LFA protection, however, the following procedure applies even if an LFA backup is not programmed at the time of the failure. An LFA unprotected adjacency SID is not eligible for LFA protection.

- IGP withdraws the advertisement of the link TLV as well as its adjacency SID sub-TLV.
- The adjacency SID hold timer starts.
- The LTN and ILM records of the adjacency are kept in the datapath for as long as the adjacency SID hold time is running. This allows packets to flow over the LFA backup path, when the adjacency is protected, and allows the ingress LER or PCE time to compute a new path of the SR-TE LSP after IGP converges.
- If the adjacency is restored while the adjacency SID hold timer is running, the timer is aborted, and the adjacency SID remains programmed in the datapath with the retained SID values. However, the backup NHLFE may change if a new LFA SPF runs while the adjacency SID hold timer running. An update to the backup NHLFE is performed immediately following the LFA SPF. In all cases, the adjacency keeps its assigned SID label value.
- If the adjacency SID hold timer expires before the adjacency is restored, the SID is deprogrammed from the datapath and the label returned into the common pool where it was drawn from. Users of the adjacency (for example, SR policy and SR-TE LSP) are also informed. When the adjacency is subsequently restored, it gets assigned its allocated static-label value or a new dynamic-label value.
- A new PG-ID is assigned each time an adjacency comes back up. This PG-ID is used by the ILM and LTN of the adjacency SID and of all downstream node SIDs that resolve to a next hop over this adjacency.

Range 1 to 1800

Units seconds

Options none

Default 15

Introduced 25.3.R2

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Platforms	SAR Gen 2

adjacency-set [id] *number*

Synopsis	Enter the **adjacency-set** list instance
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number*
Tree	adjacency-set
Introduced	25.3.R2
Platforms	SAR Gen 2

[**id**] *number*

Synopsis	Non-zero identifier for a given adjacency set
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number*
Tree	adjacency-set
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise adjacency for links terminating on same node
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

parallel *boolean*

Synopsis	Require adjacency members to terminate on same neighbor
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number* parallel *boolean*
Tree	parallel

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

sid

Synopsis	Enable the **sid** context
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number* sid
Tree	sid
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Adjacency SID label
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-set *number* sid label *number*
Tree	label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-sid

Synopsis	Enter the **adjacency-sid** context
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-sid
Tree	adjacency-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

allocate-dual-sids *boolean*

Synopsis	Allocate dual adjacency SIDs per interface
Context	**configure** router *named-item-64* ospf *number* segment-routing adjacency-sid allocate-dual-sids *boolean*

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Tree	allocate-dual-sids
Description	When configured to **true**, the router supports two SR-MPLS adjacency SIDs per interface. A protected and unprotected adjacency SID is instantiated and advertised. If an SR-MPLS adjacency SID already exists, an additional complementary (protected or unprotected) adjacency SID is created on the interface. When configured to **false**, the router disables the support of two SR-MPLS adjacency SIDs per interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of segment routing
Context	**configure** router *named-item-64* ospf *number* segment-routing admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-node-sid

Synopsis	Enable the **backup-node-sid** context
Context	**configure** router *named-item-64* ospf *number* segment-routing backup-node-sid
Tree	backup-node-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for this interface
Context	**configure** router *named-item-64* ospf *number* segment-routing backup-node-sid index *number*
Tree	index
Range	0 to 4294967295

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Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix *ipv4-unicast-prefix*

Synopsis	IP prefix and prefix length for the backup node SID
Context	**configure** router *named-item-64* ospf *number* segment-routing backup-node-sid ip-prefix *ipv4-unicast-prefix*
Tree	ip-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* ospf *number* segment-routing backup-node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label *boolean*

Synopsis	Enable processing of received ELC signaled in the IGP
Context	**configure** router *named-item-64* ospf *number* segment-routing entropy-label *boolean*
Tree	entropy-label
Introduced	25.3.R2
Platforms	SAR Gen 2

export-tunnel-table *keyword*

Synopsis	Export tunnel table

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Context	**configure** router *named-item-64* ospf *number* segment-routing export-tunnel-table *keyword*
Tree	export-tunnel-table
Options	ldp
Introduced	25.3.R2
Platforms	SAR Gen 2

mapping-server

Synopsis	Enter the **mapping-server** context
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server
Tree	mapping-server
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF mapping server
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

node-sid-map [sid-index] *number*

Synopsis	Enter the **node-sid-map** list instance
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number*
Tree	node-sid-map
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**sid-index**] *number*

Synopsis	Start SID index for the node SID mapping
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number*
Tree	node-sid-map
Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix *ipv4-prefix*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Starting prefix of the mapping
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number* ip-prefix *ipv4-prefix*
Tree	ip-prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

range *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Number of prefixes mapped by Extended Range Prefix TLV
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number* range *number*
Tree	range
Range	1 to 65535
Default	1

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Introduced	25.3.R2
Platforms	SAR Gen 2

scope

Synopsis	Enter the **scope** context
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number* scope
Tree	scope
Introduced	25.3.R2
Platforms	SAR Gen 2

area *reference*

Synopsis	Area ID in which the advertise Extended Range TLV is advertised
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number* scope area *reference*
Tree	area
Reference	**configure** router *named-item-64* ospf *number* area *ipv4-address*
Notes	The following elements are part of a choice: **area** or **as**.
Introduced	25.3.R2
Platforms	SAR Gen 2

as

Synopsis	Advertise Extended Range TLV in whole autonomous system
Context	**configure** router *named-item-64* ospf *number* segment-routing mapping-server node-sid-map *number* scope as
Tree	as
Notes	The following elements are part of a choice: **area** or **as**.
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-sid-depth

Synopsis	Enter the **maximum-sid-depth** context

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Context	**configure** router *named-item-64* ospf *number* segment-routing maximum-sid-depth
Tree	maximum-sid-depth
Introduced	25.3.R2
Platforms	SAR Gen 2

override-bmi *number*

Synopsis	Value to override the announced node MSD-BMI value
Context	**configure** router *named-item-64* ospf *number* segment-routing maximum-sid-depth override-bmi *number*
Tree	override-bmi
Description	This command overrides the announced MSD node Base MPLS Imposition (BMI) value. The MSD-BMI value announced by a router can be used by recipients to understand the number of MPLS labels that can be imposed inclusive of all service, transport, or special labels. When unconfigured, the router announces the maximum supported BMI of the node assuming the most simple services and Layer 2 encapsulation.
Range	0 to 13
Introduced	25.3.R2
Platforms	SAR Gen 2

override-erld *number*

Synopsis	Value to override the announced node MSD-ERLD value
Context	**configure** router *named-item-64* ospf *number* segment-routing maximum-sid-depth override-erld *number*
Tree	override-erld
Description	This command configures the override Entropy Readable Label Depth (ERLD) Maximum Sid Depth (MSD) value. Information about the capability of each intermediate LSR of reading the maximum label stack depth is used by ingress LSRs to perform EL-based load balancing. When unconfigured, the router announces the node maximum supported ERLD assuming the most simple Layer 2 encapsulation.
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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micro-loop-avoidance

Synopsis	Enable the **micro-loop-avoidance** context
Context	**configure** router *named-item-64* ospf *number* segment-routing micro-loop-avoidance
Tree	micro-loop-avoidance
Description	Commands in this context configure micro-loop avoidance for SR-OSPF.
Introduced	25.3.R2
Platforms	SAR Gen 2

fib-delay *number*

Synopsis	FIB delay
Context	**configure** router *named-item-64* ospf *number* segment-routing micro-loop-avoidance fib-delay *number*
Tree	fib-delay
Description	This command configures the FIB delay before programming new primary next hops. Configure the FIB delay timer to a value that corresponds to the worst-case IGP convergence in a network domain. The default FIB delay timer value corresponds to a network with a nominal convergence time. When configured, the feature applies to the following contexts: • SPFv2 SR-OSPF IPv4 tunnel (node SID) • IPv4 and IPv6 SR-TE LSPs that use a node SID in their segment list • IPv4 and IPv6 SR policies that use a node SID in their segment list When micro-loop avoidance is disabled, the system forces any running FIB delay to expire immediately and the system programs new next hops for all impacted node SIDs. When disabled, micro-loop avoidance is disabled instantaneously and will be disabled for the next SPF runs. Micro-loop avoidance remains disabled until it is re-enabled.
Range	1 to 300
Units	deciseconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-sid-range

Synopsis	Enable the **prefix-sid-range** context
Context	**configure** router *named-item-64* ospf *number* segment-routing prefix-sid-range

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Tree	prefix-sid-range
Description	Commands in this context configure the label block BGP segment routing can use.
Introduced	25.3.R2
Platforms	SAR Gen 2

global

Synopsis	BGP global SR range allocation
Context	**configure** router *named-item-64* ospf *number* segment-routing prefix-sid-range global
Tree	global
Description	When configured, the system allows BGP to allocate labels from the SRGB space, as defined under the **configure router mpls-labels sr-labels** context.
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

max-index *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Upper bound value for the local SID index
Context	**configure** router *named-item-64* ospf *number* segment-routing prefix-sid-range max-index *number*
Tree	max-index
Range	0 to 1048575
Default	1
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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start-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Lower bound value for the local label offset
Context	**configure** router *named-item-64* ospf *number* segment-routing prefix-sid-range start-label *number*
Tree	start-label
Range	0 to 1048575
Default	0
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

srlb *reference*

Synopsis	Segment routing local block
Context	**configure** router *named-item-64* ospf *number* segment-routing srlb *reference*
Tree	srlb
Reference	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-mtu *number*

Synopsis	Tunnel MTU size
Context	**configure** router *named-item-64* ospf *number* segment-routing tunnel-mtu *number*
Tree	tunnel-mtu
Range	512 to 9786
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunnel-table-pref *number*

Synopsis Preference of SR tunnels created by the IGP instance

Context **configure** router *named-item-64* ospf *number* segment-routing tunnel-table-pref *number*

Tree tunnel-table-pref

Description This command configures the TTM preference of shortest path SR tunnels created by the IGP instance. This is used for BGP shortcuts, VPRN auto-bind, or BGP transport tunnel when the tunnel binding commands are configured to the **any** value, which parses the TTM for tunnels in the protocol preference order. The user can choose to either accept the global TTM preference or explicitly list the tunnel types they want to use. If the user lists the tunnel type explicitly, the TTM preference is still used to select one type over the other. In both cases, a fallback to the next preferred tunnel type is performed if the selected type fails. A reversion to a more preferred tunnel type is performed as soon as one is available.

The segment routing module adds to the TTM an SR tunnel entry for each resolved remote node SID prefix and programs the data path having the corresponding LTN with the push operation pointing to the primary and LFA backup NHLFEs.

The default preference for shortest path SR tunnels in the TTM is set lower than LDP tunnels but higher than BGP tunnels to allow controlled migration of customers without disrupting their current deployment when they enable segment routing. The following is the value of the default preference for the various tunnel types. This includes the preference of SR tunnels based on shortest path (referred to as SR-ISIS and SR-OSPF).

Note: The preference of an SR-TE LSP is not configurable and is the second most preferred tunnel type after RSVP-TE. The preference is the same whether if the SR-TE LSP was resolved in IS-IS or OSPF.

The global default TTM preference for the tunnel types is as follows:

- ROUTE_PREF_RSVP 7
- ROUTE_PREF_SR_TE 8
- ROUTE_PREF_LDP 9
- ROUTE_PREF_OSPF_TTM 10
- ROUTE_PREF_ISIS_TTM 11
- ROUTE_PREF_BGP_TTM 12
- ROUTE_PREF_GRE 255

The default value for SR-ISIS or SR-OSPF is the same regardless if one or more instances of that protocol programmed a tunnel for the same prefix. The selection of a SR tunnel in this case is based on the lowest preference IGP instance. In the case of a tie, the instance with the lowest metric SR tunnel is selected over the lowest numbered IGP instance. Similarly, IPv6 SR-ISIS and SR-OSPF3 tunnels are programmed into TTMv6 with the same default preference value as IPv4 SR-ISIS and IPv4 SR-OSPF respectively.

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Nokia recommends not to set two or more tunnel types to the same preference value. In such a situation, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.

Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enter the **timers** context
Context	**configure** router *named-item-64* ospf *number* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

incremental-spf-wait *number*

Synopsis	Delay time before an incremental SPF calculation starts
Context	**configure** router *named-item-64* ospf *number* timers incremental-spf-wait *number*
Tree	incremental-spf-wait
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-accumulate *number*

Synopsis	Delay to gather LSAs before advertising to neighbors
Context	**configure** router *named-item-64* ospf *number* timers lsa-accumulate *number*
Tree	lsa-accumulate
Range	0 to 1000
Units	milliseconds
Default	1000

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Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-arrival *number*

Synopsis	Min delay between receipt of same LSAs from neighbors
Context	**configure** router *named-item-64* ospf *number* timers lsa-arrival *number*
Tree	lsa-arrival
Range	0 to 600000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-generate

Synopsis	Enter the **lsa-generate** context
Context	**configure** router *named-item-64* ospf *number* timers lsa-generate
Tree	lsa-generate
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-initial-wait *number*

Synopsis	First wait period between OSPF LSA generation
Context	**configure** router *named-item-64* ospf *number* timers lsa-generate lsa-initial-wait *number*
Tree	lsa-initial-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

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lsa-second-wait *number*

Synopsis	Hold time between the first and second LSA generation
Context	**configure** router *named-item-64* ospf *number* timers lsa-generate lsa-second-wait *number*
Tree	lsa-second-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-wait *number*

Synopsis	Max time between two LSAs being generated
Context	**configure** router *named-item-64* ospf *number* timers lsa-generate max-lsa-wait *number*
Tree	max-lsa-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-delay *number*

Synopsis	Hold down timer for external routes into OSPF
Context	**configure** router *named-item-64* ospf *number* timers redistribute-delay *number*
Tree	redistribute-delay
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** router *named-item-64* ospf *number* timers spf-wait
Tree	spf-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-initial-wait *number*

Synopsis	Initial SPF calculation delay after a topology change
Context	**configure** router *named-item-64* ospf *number* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-max-wait *number*

Synopsis	Max interval between two consecutive SPF calculations
Context	**configure** router *named-item-64* ospf *number* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Units	milliseconds
Default	10000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-second-wait *number*

Synopsis	Hold time between the first and second SPF calculation
Context	**configure** router *named-item-64* ospf *number* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait

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Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

traffic-engineering *boolean*

Synopsis	Calculate traffic engineering route
Context	**configure** router *named-item-64* ospf *number* traffic-engineering *boolean*
Tree	traffic-engineering
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traffic-engineering-options

Synopsis	Enter the **traffic-engineering-options** context
Context	**configure** router *named-item-64* ospf *number* traffic-engineering-options
Tree	traffic-engineering-options
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-delay *boolean*

Synopsis	Enable the advertisement of link delay for TE
Context	**configure** router *named-item-64* ospf *number* traffic-engineering-options advertise-delay *boolean*
Tree	advertise-delay
Description	When configured to **true**, the router advertises link delay in the IGP LSDB within the OSPF-TE TLV attribute or when the Application-Specific Link Attribute (ASLA) is enabled within SR-TE ASLA. When the router is configured under the **configure router ospf traffic-engineering-options sr-te application-specific-link-attributes** command to generate SR-TE ASLA attributes, link delay is advertised as a legacy RFC 3630 TLV when RSVP-TE is enabled and as an ASLA RFC 8920 TLV for SR-TE when MPLS is enabled for an interface.

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SR OS accepts and handles both legacy RSVP-TE TLVs and ASLAs for the RSVP application. However, SR OS only advertises RFC 3630 legacy RSVP-TE TLVs (as recommended by RFC 8920) to avoid compatibility issues.

When configured to **false**, the router disables link delay advertisement.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *keyword*

Synopsis	Advertisement of link attributes for SR-TE
Context	**configure** router *named-item-64* ospf *number* traffic-engineering-options sr-te *keyword*
Tree	sr-te
Description	This command specifies the advertisement of TE attributes of each link on a per-application basis for RSVP-TE and SR-TE applications.
Options	false, legacy, application-specific-link-attributes
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-import *boolean*

Synopsis	Submit routes into the unicast Route Table Manager
Context	**configure** router *named-item-64* ospf *number* unicast-import *boolean*
Tree	unicast-import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf3 [ospf-instance] *number*

Synopsis	Enter the **ospf3** list instance
Context	**configure** router *named-item-64* ospf3 *number*
Tree	ospf3
Description	Commands in this context create or edit an OSPFv3 routing instance.

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Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPF instance
Context	**configure** router *named-item-64* ospf3 *number*
Tree	ospf3
Range	0 to 31 | 64 to 95
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF instance
Context	**configure** router *named-item-64* ospf3 *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *keyword*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* ospf3 *number* advertise-router-capability *keyword*
Tree	advertise-router-capability
Options	false, link, area, as
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

area [area-id] *ipv4-address*

Synopsis	Enter the **area** list instance
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address*
Tree	area
Introduced	25.3.R2
Platforms	SAR Gen 2

[**area-id**] *ipv4-address*

Synopsis	Area-ID attribute
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **area-range** list instance
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* area-range *(ipv4-prefix | ipv6-prefix)*

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Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-mask**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Address ranges to create on an ABR for route summarization or suppression
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* area-range *(ipv4-prefix | ipv6-prefix)* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole-aggregate *boolean*

Synopsis	Install a low priority blackhole route to avoid loops
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* blackhole-aggregate *boolean*
Tree	blackhole-aggregate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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database-export-exclude *boolean*

Synopsis	Exclude IGP link-state OSPF area info into TE-DB
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* database-export-exclude *boolean*
Tree	database-export-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Type 3 Summary-LSA/OSPFv3 inter-area-prefix-LSA route
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-lsa *keyword*

Synopsis	Extended LSA format in an OSPFv3 area
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* extended-lsa *keyword*
Tree	extended-lsa
Options	only
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Route imported as Summary Type 3/Inter-Area-Prefix-LSA

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Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name*
Tree	interface
Description	This command specifies the IP interface name. Interface names must be unique within the group of defined IP interfaces for **configure router interface** and **configure service ies interface** commands. An interface name cannot be in the form of an IP address. Interface names can be a string composed of printable, 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. If the IP interface name does not exist or does not have an IP address configured, an error message is returned. If the IP interface exists in a different area it is moved to this area.
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication

Synopsis	Enable the **authentication** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* authentication
Tree	authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound *reference*

Synopsis	sa-name
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* authentication inbound *reference*
Tree	inbound

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Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound *reference*

Synopsis	sa-name
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* authentication outbound *reference*
Tree	outbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

remain-down-on-failure *boolean*

Synopsis	Force adjacency down on failure until session returns
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness remain-down-on-failure *boolean*
Tree	remain-down-on-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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strict *boolean*

Synopsis	Enable BFD strict mode
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness strict *boolean*
Tree	strict
Description	When configured to **true**, the system uses BFD strict-mode. BFD strict-mode mandates that an active BFD session must exist between the OSPF neighbors before establishing a full adjacency. When configured to **true**, the router uses Link-Local Signaling (LLS) with the B-flag set to instruct the OSPF neighbors that BFD must be enabled on the link. BFD strict-mode requires both sides to have the B-flag set. During OSPFv3 BFD strict-mode operations, the router advertises the local interface IPv4 address TLV using LLS, but the SR OS router continues to use IPv6-based BFD sessions for both the IPv4 and IPv6 address families.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-mode-holddown *number*

Synopsis	Adjacency up time delay after BFD session establishment
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness strict-mode-holddown *number*
Tree	strict-mode-holddown
Description	This command configures a delay timer before bringing up the OSPF adjacency after the BFD session establishment. Holddown helps mitigate potential routing churn when BFD sessions are unstable. The holddown timer is reset when a BFD session operationally toggles.
Range	1 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-advertise-prefix *reference*

Synopsis	Policy to conditionally advertise interface prefixes
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* conditional-advertise-prefix *reference*

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Tree	conditional-advertise-prefix
Description	This command specifies the policy that allows IS-IS, OSPF, and OSPFv3 to selectively advertise system or loopback interface prefixes (including associated SIDs and SRv6 locators) only when conditions defined in the route policy are met. The route policy evaluates the presence or absence of specific routes in the routing table, typically using constructs like route-exists. If the policy evaluates to accept, the interface prefix is advertised; if not, the prefix is suppressed.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.10.R1
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Interface type
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* interface-type *keyword*
Tree	interface-type
Description	This command specifies the interface type. **broadcast** - Broadcast network To significantly improve adjacency forming and network convergence, configure a network as point-to-point if only two routers are connected, even if the network is a broadcast media such as Ethernet. **non-broadcast** - Non-broadcast network **point-to-point** - Point-to-point link Set the interface type of an Ethernet link to **point-to-point** to avoid having to carry the broadcast adjacency maintenance overhead if the Ethernet link provided is used as a point-to-point. **p2mp-nbma** - Point-to-multipoint on a link without broadcast or multicast support No designated router or backup designated router is elected on this type of interface and all OSPF neighbors connect through individual point-to-point links. Only VPRN and IES services interfaces support this interface type. **secondary** - Multiple secondary adjacencies allowed A **secondary** interface allows multiple secondary adjacencies, in addition to the primary adjacency, to be established over a single IP interface. This interface type can also be applied to the system interface and to loopback interfaces to allow them to participate in multiple areas, although no adjacencies are formed over these types of interfaces.
Options	broadcast, non-broadcast, point-to-point, secondary, p2mp-nbma
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load balancing weight for an OSPF3 interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight

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Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enter the **loopfree-alternate** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Enable fast reroute at OSPF primary interface level
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate exclude *boolean*
Tree	exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-map

Synopsis	Enable the **policy-map** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map
Tree	policy-map
Introduced	25.3.R2
Platforms	SAR Gen 2

route-nh-template *reference*

Synopsis	Route next hop policy template name

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Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map route-nh-template *reference*
Tree	route-nh-template
Reference	**configure** routing-options route-next-hop-policy template *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-filter-out *keyword*

Synopsis	LSA flooding reduction
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* lsa-filter-out *keyword*
Tree	lsa-filter-out
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Route cost metric for the interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* metric *number*
Tree	metric
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	MTU for the OSPF to use on the interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* mtu *number*
Tree	mtu
Range	512 to 9786

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Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **neighbor**
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* neighbor *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Neighbor link local address
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* neighbor *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	neighbor
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

node-sid

Synopsis	Enable the **node-sid** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* node-sid
Tree	node-sid
Description	Commands in this context configure a node SID index or label value for the prefix representing the primary address of a network interface of type system or loopback. A separate SID value can be configured for each IPv4 and IPv6 primary address of the interface. The secondary address of an IPv4 interface cannot be assigned a node SID index and does not inherit the SID of the primary IPv4 address. In OSPFv2 and OSPFv3, the node SID is configured in the primary area but is inherited in any other area in which the interface is added as secondary. This command fails if the network interface is not a loopback type or if the interface is defined in an IES or VPRN context. Assigning the same SID index or label value to the same interface in two different IGP instances is not allowed within the same node.

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The value of the label or index SID is taken from the range configured for this IGP instance. When using the global mode of operation, the segment routing module checks that the same index or label value is not assigned to more than one loopback interface address. When using the per-instance mode of operation, this check is not required because the index and, therefore, the label ranges of IGP instances are not allowed to overlap.

The **clear-n-flag** option allows the user to clear the N-flag (node-sid flag) in an OSPF or OSPF3 prefix SID sub-TLV originated for the prefix of a loopback interface on the system. By default, the prefix SID sub-TLV for the prefix of a loopback interface is tagged as a node SID; that is, it belongs to this node only. However, to configure and advertise an anycast SID using the same loopback interface prefix on multiple nodes, the user must clear the N-flag to assure interoperability with third-party implementations. This may perform a strict check on the receive end and drop duplicate prefix SID sub-TLVs when the N-flag is set.

The SR OS implementation is relaxed on the receive end and accepts duplicate prefix SIDs with the N-flag set or clear. SR OS resolves to the closest owner, or owners if ECMP, of the prefix SID cost-wise.

Introduced 25.3.R2

Platforms SAR Gen 2

clear-n-flag *boolean*

Synopsis Clear the N-flag in an OSPF3 prefix

Context **configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* node-sid clear-n-flag *boolean*

Tree clear-n-flag

Description When configured to **true**, this command allows the user to clear the N-flag in an OSPF3 prefix SID sub-TLV originated for the prefix of a loopback interface on the system.

When configured to **false**, the N-flag in an OSPF3 prefix SID sub-TLV originated for the prefix of a loopback interface on the system is not cleared.

When the user wants to configure and advertise an anycast SID using the same loopback interface prefix on multiple nodes, the user must clear the N-flag to assure interoperability with third-party implementations. This may perform a strict check on the receive end and drop duplicate prefix SID sub-TLVs when the N-flag is set.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

index *number*

Synopsis Node SID index for this interface

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Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* node-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* node-sid label *number*
Tree	label
Range	1 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Advertise passive interfaces as OSPF interfaces
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* passive *boolean*
Tree	passive
Introduced	25.3.R2
Platforms	SAR Gen 2

poll-interval *number*

Synopsis	Interval for Hellos to non-adjacent OSPF NBMA neighbor
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* poll-interval *number*
Tree	poll-interval
Max. range	0 to 4294967295
Units	seconds

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Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Interface priority in the DR election on the subnet
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* priority *number*
Tree	priority
Range	0 to 255
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority *keyword*

Synopsis	RIB priority for OSPF
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* rib-priority *keyword*
Tree	rib-priority
Options	high
Introduced	25.3.R2

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Platforms	SAR Gen 2

sid-protection *boolean*

Synopsis	Allow adjacency SID protection by LFA and remote LFA
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* sid-protection *boolean*
Tree	sid-protection
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* interface *interface-name* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

key-rollover-interval *number*

Synopsis	Key rollover interval
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* key-rollover-interval *number*
Tree	key-rollover-interval
Range	10 to 300
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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loopfree-alternate-exclude *boolean*

Synopsis	Exclude interfaces in OSPF areas in SPF LFA computation
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nssa

Synopsis	Enable the **nssa** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa
Tree	nssa
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **area-range** list instance
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-mask**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Addresses on ABR for route summarization or suppression
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa area-range *(ipv4-prefix | ipv6-prefix)* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

originate-default-route

Synopsis	Enable the **originate-default-route** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa originate-default-route
Tree	originate-default-route
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-check *boolean*

Synopsis	Default route to remove if there is no adjacency
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa originate-default-route adjacency-check *boolean*
Tree	adjacency-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

type-nssa *boolean*

Synopsis	Generate a default route using NSSA-LSA type
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa originate-default-route type-nssa *boolean*
Tree	type-nssa
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-external *boolean*

Synopsis	Redistribute external routes into the NSSA
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa redistribute-external *boolean*
Tree	redistribute-external
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the NSSA on an ABR
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* nssa summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

stub

Synopsis	Enable the **stub** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* stub
Tree	stub
Introduced	25.3.R2
Platforms	SAR Gen 2

default-metric *number*

Synopsis	Metric used by ABR for default route into the stub area
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* stub default-metric *number*

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Tree	default-metric
Range	1 to 16777214
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the stub area on an ABR
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* stub summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-link [router-id] *ipv4-address* transit-area *reference*

Synopsis	Enter the **virtual-link** list instance
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-id**] *ipv4-address*

Synopsis	Router ID of the virtual link neighbor
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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transit-area *reference*

Synopsis	Transit area linking backbone and non-connected area
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Reference	**configure** router *named-item-64* ospf3 *number* area *ipv4-address*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication

Synopsis	Enable the **authentication** context
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication
Tree	authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound *reference*

Synopsis	sa-name
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication inbound *reference*

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Tree	inbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound *reference*

Synopsis	sa-name
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication outbound *reference*
Tree	outbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* hello-interval *number*
Tree	hello-interval
Range	1 to 65535

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Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** router *named-item-64* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

asbr

Synopsis	Enable the **asbr** context
Context	**configure** router *named-item-64* ospf3 *number* asbr
Tree	asbr
Introduced	25.3.R2

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Platforms	SAR Gen 2

database-export

Synopsis	Enable the **database-export** context
Context	**configure** router *named-item-64* ospf3 *number* database-export
Tree	database-export
Description	Commands in this context enable the population of the extended TE Database (TE-DB) with the link-state information from a specific IGP instance. This information includes the IGP, TE, and the SR information, prefix SID sub-TLV, adjacency SID sub-TLV, and router SR capability TLV.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ls-identifier

Synopsis	Enable the **bgp-ls-identifier** context
Context	**configure** router *named-item-64* ospf3 *number* database-export bgp-ls-identifier
Tree	bgp-ls-identifier
Description	Commands in this context correlate, along with the Autonomous System Number (ASN), the BGP-LS NLRI advertisements of multiple BGP-LS speakers of the same IGP domain.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	BGP-LS ID sent in the BGP-LS NLRI
Context	**configure** router *named-item-64* ospf3 *number* database-export bgp-ls-identifier value *number*
Tree	value
Description	This command configures the BGP-LS ID to export. If an NRC-P network domain has multiple IGP domains, a user must configure BGP-LS speakers within each IGP domain with the same unique ASN, BGP-LS ID tuple. The BGP-LS identifier is optional and is only sent in a BGP-LS NLRI if configured in the IGP instance of an IGP domain. **Note:** If this IGP instance participates in traffic engineering with RSVP-TE or SR-TE, the **traffic-engineering** command configuration is not strictly required because enabling the

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extended TE-DB populates this information automatically. However, Nokia recommends enabling the **traffic-engineering** command to make the configuration consistent with other routers in the network that do not require the enabling of the extended TE-DB.

Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-identifier *number*

Synopsis	IGP instance in the BGP-LS NLRI
Context	**configure** router *named-item-64* ospf3 *number* database-export igp-identifier *number*
Tree	igp-identifier
Description	This command identifies the IGP instance in the BGP-LS NLRI when a router has interfaces participating in multiple IGP instances. The concept of an instance ID specified for OSPF is local subnet significant (RFC 6549). An IGP identifier value can be configured to be unique within a specified IGP domain when the router sends the IGP link state information using BGP-LS.
Max. range	0 to 18446744073709551615
Introduced	25.3.R2
Platforms	SAR Gen 2

reachable-ls-only *boolean*

Synopsis	Encode only reachable link-state information
Context	**configure** router *named-item-64* ospf3 *number* database-export reachable-ls-only *boolean*
Tree	reachable-ls-only
Description	When configured to **true**, the router, acting as a BGP-LS producer, must withdraw all link-state objects it has advertised in BGP, in accordance with section 5.9 of RFC 9552. This withdrawal occurs when the node that originated the corresponding LSPs is determined to be unreachable in the IGP based on the failure of a reachability check for that node. This withdrawal operation assists network controllers in assessing a reachable IGP topology, even in networks with segmented areas. For backward compatibility, the default behavior remains unchanged. When configure to **false**, the router continues to send link-state objects even for links that fail an IGP reachability check.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** router *named-item-64* ospf3 *number* export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** router *named-item-64* ospf3 *number* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** router *named-item-64* ospf3 *number* export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies that determine exported routes
Context	**configure** router *named-item-64* ospf3 *number* export-policy *reference*
Tree	export-policy
Description	This command configures export routing policies for the routes exported from the routing table to IS-IS.

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If the export policy is undefined, the system does not export non IS-IS routes from the routing table manager to IS-IS.

If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.

If the **aggregate** command is also configured in the **configure router** context, the aggregation is applied before the export policy is applied.

Routing policies are created in the **configure router policy-options** context.

Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-lsa *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Extended LSA format in an OSPFv3 area
Context	**configure** router *named-item-64* ospf3 *number* extended-lsa *keyword*
Tree	extended-lsa
Options	sparse, only
Default	sparse
Introduced	25.3.R2
Platforms	SAR Gen 2

external-db-overflow

Synopsis	Enable the **external-db-overflow** context
Context	**configure** router *named-item-64* ospf3 *number* external-db-overflow
Tree	external-db-overflow
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

Synopsis	Time during which the router operates in overload
Context	**configure** router *named-item-64* ospf3 *number* external-db-overflow interval *number*
Tree	interval
Range	0 to 2147483647
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Number of external LSA at which overload is triggered
Context	**configure** router *named-item-64* ospf3 *number* external-db-overflow limit *number*
Tree	limit
Range	0 to 2147483647
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

external-preference *number*

Synopsis	Preference for OSPF external routes
Context	**configure** router *named-item-64* ospf3 *number* external-preference *number*
Tree	external-preference
Range	1 to 255
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** router *named-item-64* ospf3 *number* graceful-restart

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Tree	graceful-restart
Description	Commands in this context enable OSPF graceful restart (GR) to minimize service interruption. When the control plane of a GR-capable router fails or restarts, the neighboring routers (GR helpers) temporarily preserve OSPF forwarding information. Traffic continues to be forwarded to the restarting router using the last-known forwarding tables. If the control plane of the restarting router becomes operationally and administratively up within the grace period, the restarting router resumes normal OSPF operation. If the grace period expires, the restarting router is presumed inactive and the OSPF topology is recalculated to route traffic around the failure.
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-mode *boolean*

Synopsis	Enable graceful restart helper for OSPF
Context	**configure** router *named-item-64* ospf3 *number* graceful-restart helper-mode *boolean*
Tree	helper-mode
Description	When configured to **true**, the router operates in OSPF graceful restart helper mode and assists restarting neighbors by maintaining adjacencies and forwarding state during their graceful restart interval. When configured to **false**, the router does not provide helper support and does not preserve adjacency or forwarding state for neighbors performing a graceful restart.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-lsa-checking *boolean*

Synopsis	Perform strict LSA checking during graceful restart
Context	**configure** router *named-item-64* ospf3 *number* graceful-restart strict-lsa-checking *boolean*
Tree	strict-lsa-checking
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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igp-shortcut

Synopsis	Enter the **igp-shortcut** context
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut
Tree	igp-shortcut
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IGP shortcuts
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-next-hop

Synopsis	Enter the **tunnel-next-hop** context
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop
Tree	tunnel-next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**family-type**] *keyword*

Synopsis	Address family type for the tunnel next hop
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop family *keyword*
Tree	family
Options	ipv4, ipv6, srv4, srv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Resolution state for IGP shortcut tunnels
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop family *keyword* resolution *keyword*
Tree	resolution
Options	none, filter, any, match-family-ip
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter rsvp *boolean*

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Tree	rsvp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *boolean*

Synopsis	Use SR-TE tunneling for next-hop resolution
Context	**configure** router *named-item-64* ospf3 *number* igp-shortcut tunnel-next-hop family *keyword* resolution-filter sr-te *boolean*
Tree	sr-te
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy names for routes from IGP to route table
Context	**configure** router *named-item-64* ospf3 *number* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-sync *boolean*

Synopsis	Configure IGP-LDP synchronization for interfaces
Context	**configure** router *named-item-64* ospf3 *number* ldp-sync *boolean*
Tree	ldp-sync
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate
Tree	loopfree-alternate
Description	Commands in this context enable Loop-Free Alternate (LFA) computation by SPF under the IS-IS routing protocol level or under the OSPF routing protocol instance. When this command is enabled, it instructs the IGP SPF to attempt to pre-compute both a primary next hop and an LFA next hop for every learned prefix. IS-IS computes the primary SPF first and then computes the LFA SPF. The LFA backup next hop is only available after the LFA SPF is completed. When found, the LFA next hop is populated into the routing table along with the primary next hop for the prefix.
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude

Synopsis	Enter the **exclude** context
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate exclude
Tree	exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-policy *reference*

Synopsis	Policy to exclude prefixes from LFA SPF calculation
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Description	This command specifies the name of the policy for the prefixes to exclude from the LFA SPF calculation. An excluded prefix is not included in LFA calculation regardless of its priority. The prefix tag is, however, used in the main SPF.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

remote-lfa

Synopsis	Enable the **remote-lfa** context
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate remote-lfa
Tree	remote-lfa
Introduced	25.3.R2
Platforms	SAR Gen 2

max-pq-cost *number*

Synopsis	Destination max cost for reverse SPF calculation
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate remote-lfa max-pq-cost *number*
Tree	max-pq-cost
Max. range	0 to 4294967295
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

node-protect

Synopsis	Enable the **node-protect** context
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate remote-lfa node-protect
Tree	node-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

max-pq-nodes *number*

Synopsis	Maximum number of PQ nodes found in the LFA SPFs
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate remote-lfa node-protect max-pq-nodes *number*

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Tree	max-pq-nodes
Range	1 to 32
Default	16
Introduced	25.3.R2
Platforms	SAR Gen 2

ti-lfa

Synopsis	Enable the **ti-lfa** context
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate ti-lfa
Tree	ti-lfa
Description	Commands in this context enable the use of the Topology Independent Loop-Free Alternate (TI-LFA) algorithm in the LFA SPF calculation for this OSPFv3 instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sr-frr-labels *number*

Synopsis	Maximum number of labels the TI-LFA backup path can use
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate ti-lfa max-sr-frr-labels *number*
Tree	max-sr-frr-labels
Description	This command configures the maximum number of labels allowed in the segment list of the TI-LFA repair tunnel. A higher value results in better coverage by TI-LFA at the expense of increased packet encapsulation overhead. The TI-LFA algorithm uses this value to limit the search for the Q-node from the P-node on the post-convergence path.
Range	0 to 3
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

node-protect

Synopsis	Enable the **node-protect** context
Context	**configure** router *named-item-64* ospf3 *number* loopfree-alternate ti-lfa node-protect
Tree	node-protect

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Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import *boolean*

Synopsis	Submit routes into the multicast Route Table Manager
Context	**configure** router *named-item-64* ospf3 *number* multicast-import *boolean*
Tree	multicast-import
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload *boolean*

Synopsis	Change local router state to appear overloaded
Context	**configure** router *named-item-64* ospf3 *number* overload *boolean*
Tree	overload
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-1 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** router *named-item-64* ospf3 *number* overload-include-ext-1 *boolean*
Tree	overload-include-ext-1
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-2 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** router *named-item-64* ospf3 *number* overload-include-ext-2 *boolean*
Tree	overload-include-ext-2

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-stub *boolean*

Synopsis	Advertise all stub interfaces with max metric value
Context	**configure** router *named-item-64* ospf3 *number* overload-include-stub *boolean*
Tree	overload-include-stub
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-on-boot

Synopsis	Enable the **overload-on-boot** context
Context	**configure** router *named-item-64* ospf3 *number* overload-on-boot
Tree	overload-on-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Router interval in overload before normal operations
Context	**configure** router *named-item-64* ospf3 *number* overload-on-boot timeout *number*
Tree	timeout
Range	60 to 1800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Preference for OSPF internal routes
Context	**configure** router *named-item-64* ospf3 *number* preference *number*

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Tree	preference
Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-bandwidth *number*

Synopsis	Bandwidth to reference default costing of interfaces
Context	**configure** router *named-item-64* ospf3 *number* reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 18446744073709551615
Units	kilobps
Default	100000000
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority

Synopsis	Enter the **rib-priority** context
Context	**configure** router *named-item-64* ospf3 *number* rib-priority
Tree	rib-priority
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** router *named-item-64* ospf3 *number* rib-priority high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-list *reference*

Synopsis	Higher priority list used during OSPF route calculation
Context	**configure** router *named-item-64* ospf3 *number* rib-priority high prefix-list *reference*
Tree	prefix-list
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *router-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Unique router ID for the OSPF instance
Context	**configure** router *named-item-64* ospf3 *number* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

rtr-adv-lsa-limit

Synopsis	Enable the **rtr-adv-lsa-limit** context
Context	**configure** router *named-item-64* ospf3 *number* rtr-adv-lsa-limit
Tree	rtr-adv-lsa-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Log the event without triggering overload
Context	**configure** router *named-item-64* ospf3 *number* rtr-adv-lsa-limit log-only *boolean*
Tree	log-only

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-count *number*

Synopsis	Max number of LSAs one router can advertise
Context	**configure** router *named-item-64* ospf3 *number* rtr-adv-lsa-limit max-lsa-count *number*
Tree	max-lsa-count
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-timeout *(number | keyword)*

Synopsis	Maximum time in overload after LSA limit is reached
Context	**configure** router *named-item-64* ospf3 *number* rtr-adv-lsa-limit overload-timeout *(number | keyword)*
Tree	overload-timeout
Range	1 to 1800
Units	seconds
Options	forever
Default	forever
Introduced	25.3.R2
Platforms	SAR Gen 2

warning-threshold *number*

Synopsis	Percentage of the max LSA count that causes a warning
Context	**configure** router *named-item-64* ospf3 *number* rtr-adv-lsa-limit warning-threshold *number*
Tree	warning-threshold
Range	0 to 100
Units	percent

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Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-routing

Synopsis	Enter the **segment-routing** context
Context	**configure** router *named-item-64* ospf3 *number* segment-routing
Tree	segment-routing
Introduced	25.3.R2
Platforms	SAR Gen 2

adj-sid-hold *(number | keyword)*

Synopsis	Adjacency SID hold time
Context	**configure** router *named-item-64* ospf3 *number* segment-routing adj-sid-hold *(number | keyword)*
Tree	adj-sid-hold
Description	This command configures a timer to hold the ILM or LTN of an adjacency SID following a failure of the adjacency. When an adjacency to a neighbor fails, the following procedure is followed for both an LFA protected and the LFA unprotected SID of this adjacency in SR-MPLS. An adjacency can have both types of SIDs assigned by configuration. An LFA protected adjacency SID is eligible for LFA protection, however, the following procedure applies even if an LFA backup is not programmed at the time of the failure. An LFA unprotected adjacency SID is not eligible for LFA protection. • IGP withdraws the advertisement of the link TLV as well as its adjacency SID sub-TLV. • The adjacency SID hold timer starts. • The LTN and ILM records of the adjacency are kept in the datapath for as long as the adjacency SID hold time is running. This allows packets to flow over the LFA backup path, when the adjacency is protected, and allows the ingress LER or PCE time to compute a new path of the SR-TE LSP after IGP converges. • If the adjacency is restored while the adjacency SID hold timer is running, the timer is aborted, and the adjacency SID remains programmed in the datapath with the retained SID values. However, the backup NHLFE may change if a new LFA SPF runs while the adjacency SID hold timer running. An update to the backup NHLFE is performed immediately following the LFA SPF. In all cases, the adjacency keeps its assigned SID label value. • If the adjacency SID hold timer expires before the adjacency is restored, the SID is deprogrammed from the datapath and the label returned into the common pool

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where it was drawn from. Users of the adjacency (for example, SR policy and SR-TE LSP) are also informed. When the adjacency is subsequently restored, it gets assigned its allocated static-label value or a new dynamic-label value.

- A new PG-ID is assigned each time an adjacency comes back up. This PG-ID is used by the ILM and LTN of the adjacency SID and of all downstream node SIDs that resolve to a next hop over this adjacency.

Range	1 to 1800
Units	seconds
Options	none
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-sid

Synopsis	Enter the **adjacency-sid** context
Context	**configure** router *named-item-64* ospf3 *number* segment-routing adjacency-sid
Tree	adjacency-sid
Introduced	25.10.R1
Platforms	SAR Gen 2

allocate-dual-sids *boolean*

Synopsis	Allocate dual adjacency SIDs per interface
Context	**configure** router *named-item-64* ospf3 *number* segment-routing adjacency-sid allocate-dual-sids *boolean*
Tree	allocate-dual-sids
Description	When configured to **true**, the router supports two SR-MPLS adjacency SIDs per interface. A protected and unprotected adjacency SID is instantiated and advertised. If an SR-MPLS adjacency SID already exists, an additional complementary (protected or unprotected) adjacency SID is created on the interface. When configured to **false**, the router disables the support of two SR-MPLS adjacency SIDs per interface.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of segment routing
Context	**configure** router *named-item-64* ospf3 *number* segment-routing admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-sid-range

Synopsis	Enable the **prefix-sid-range** context
Context	**configure** router *named-item-64* ospf3 *number* segment-routing prefix-sid-range
Tree	prefix-sid-range
Description	Commands in this context configure the label block BGP segment routing can use.
Introduced	25.3.R2
Platforms	SAR Gen 2

global

Synopsis	BGP global SR range allocation
Context	**configure** router *named-item-64* ospf3 *number* segment-routing prefix-sid-range global
Tree	global
Description	When configured, the system allows BGP to allocate labels from the SRGB space, as defined under the **configure router mpls-labels sr-labels** context.
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

max-index *number*

WARNING:
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Synopsis	Upper bound value for the local SID index
Context	**configure** router *named-item-64* ospf3 *number* segment-routing prefix-sid-range max-index *number*
Tree	max-index
Range	0 to 1048575
Default	1
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

start-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Lower bound value for the local label offset
Context	**configure** router *named-item-64* ospf3 *number* segment-routing prefix-sid-range start-label *number*
Tree	start-label
Range	0 to 1048575
Default	0
Notes	The following elements are part of a choice: **global** or (**max-index** and **start-label**).
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-mtu *number*

Synopsis	Tunnel MTU size
Context	**configure** router *named-item-64* ospf3 *number* segment-routing tunnel-mtu *number*
Tree	tunnel-mtu
Range	512 to 9786
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunnel-table-pref *number*

Synopsis Preference of SR tunnels created by the IGP instance

Context **configure** router *named-item-64* ospf3 *number* segment-routing tunnel-table-pref *number*

Tree tunnel-table-pref

Description This command configures the TTM preference of shortest path SR tunnels created by the IGP instance. This is used for BGP shortcuts, VPRN auto-bind, or BGP transport tunnel when the tunnel binding commands are configured to the **any** value, which parses the TTM for tunnels in the protocol preference order. The user can choose to either accept the global TTM preference or explicitly list the tunnel types they want to use. If the user lists the tunnel type explicitly, the TTM preference is still used to select one type over the other. In both cases, a fallback to the next preferred tunnel type is performed if the selected type fails. A reversion to a more preferred tunnel type is performed as soon as one is available.

The segment routing module adds to the TTM an SR tunnel entry for each resolved remote node SID prefix and programs the data path having the corresponding LTN with the push operation pointing to the primary and LFA backup NHLFEs.

The default preference for shortest path SR tunnels in the TTM is set lower than LDP tunnels but higher than BGP tunnels to allow controlled migration of customers without disrupting their current deployment when they enable segment routing. The following is the value of the default preference for the various tunnel types. This includes the preference of SR tunnels based on shortest path (referred to as SR-ISIS and SR-OSPF).

Note: The preference of an SR-TE LSP is not configurable and is the second most preferred tunnel type after RSVP-TE. The preference is the same whether if the SR-TE LSP was resolved in IS-IS or OSPF.

The global default TTM preference for the tunnel types is as follows:

- ROUTE_PREF_RSVP 7
- ROUTE_PREF_SR_TE 8
- ROUTE_PREF_LDP 9
- ROUTE_PREF_OSPF_TTM 10
- ROUTE_PREF_ISIS_TTM 11
- ROUTE_PREF_BGP_TTM 12
- ROUTE_PREF_GRE 255

The default value for SR-ISIS or SR-OSPF is the same regardless if one or more instances of that protocol programmed a tunnel for the same prefix. The selection of a SR tunnel in this case is based on the lowest preference IGP instance. In the case of a tie, the instance with the lowest metric SR tunnel is selected over the lowest numbered IGP instance. Similarly, IPv6 SR-ISIS and SR-OSPF3 tunnels are programmed into TTMv6 with the same default preference value as IPv4 SR-ISIS and IPv4 SR-OSPF respectively.

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Nokia recommends not to set two or more tunnel types to the same preference value. In such a situation, the tunnel table prefers the tunnel type which was first introduced in SR OS implementation historically.

Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enter the **timers** context
Context	**configure** router *named-item-64* ospf3 *number* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

incremental-spf-wait *number*

Synopsis	Delay time before an incremental SPF calculation starts
Context	**configure** router *named-item-64* ospf3 *number* timers incremental-spf-wait *number*
Tree	incremental-spf-wait
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-accumulate *number*

Synopsis	Delay to gather LSAs before advertising to neighbors
Context	**configure** router *named-item-64* ospf3 *number* timers lsa-accumulate *number*
Tree	lsa-accumulate
Range	0 to 1000
Units	milliseconds
Default	1000

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Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-arrival *number*

Synopsis	Min delay between receipt of same LSAs from neighbors
Context	**configure** router *named-item-64* ospf3 *number* timers lsa-arrival *number*
Tree	lsa-arrival
Range	0 to 600000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-generate

Synopsis	Enter the **lsa-generate** context
Context	**configure** router *named-item-64* ospf3 *number* timers lsa-generate
Tree	lsa-generate
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-initial-wait *number*

Synopsis	First wait period between OSPF LSA generation
Context	**configure** router *named-item-64* ospf3 *number* timers lsa-generate lsa-initial-wait *number*
Tree	lsa-initial-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

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lsa-second-wait *number*

Synopsis	Hold time between the first and second LSA generation
Context	**configure** router *named-item-64* ospf3 *number* timers lsa-generate lsa-second-wait *number*
Tree	lsa-second-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-wait *number*

Synopsis	Max time between two LSAs being generated
Context	**configure** router *named-item-64* ospf3 *number* timers lsa-generate max-lsa-wait *number*
Tree	max-lsa-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-delay *number*

Synopsis	Hold down timer for external routes into OSPF
Context	**configure** router *named-item-64* ospf3 *number* timers redistribute-delay *number*
Tree	redistribute-delay
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** router *named-item-64* ospf3 *number* timers spf-wait
Tree	spf-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-initial-wait *number*

Synopsis	Initial SPF calculation delay after a topology change
Context	**configure** router *named-item-64* ospf3 *number* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-max-wait *number*

Synopsis	Max interval between two consecutive SPF calculations
Context	**configure** router *named-item-64* ospf3 *number* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Units	milliseconds
Default	10000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-second-wait *number*

Synopsis	Hold time between the first and second SPF calculation
Context	**configure** router *named-item-64* ospf3 *number* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait

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Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-import *boolean*

Synopsis	Submit routes into the unicast Route Table Manager
Context	**configure** router *named-item-64* ospf3 *number* unicast-import *boolean*
Tree	unicast-import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

pcep

Synopsis	Enter the **pcep** context
Context	**configure** router *named-item-64* pcep
Tree	pcep
Description	Commands in this context configure the PCEP command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

pcc

Synopsis	Enable the **pcc** context
Context	**configure** router *named-item-64* pcep pcc
Tree	pcc
Description	Commands in this context configure the PCC command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the PCEP session element
Context	**configure** router *named-item-64* pcep pcc admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

capability-advertisement

Synopsis	Enter the **capability-advertisement** context
Context	**configure** router *named-item-64* pcep pcc capability-advertisement
Tree	capability-advertisement
Description	Commands in this context configure the advertisement of PCEP PCC capabilities in the Open message.
Introduced	26.3.R2
Platforms	SAR Gen 2

multi-path *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable advertising multipath capability in Open message
Context	**configure** router *named-item-64* pcep pcc capability-advertisement multi-path *boolean*
Tree	multi-path
Description	When configured to **true**, the router advertises the multipath capability in the Open message, which allows PCEP speakers to signal their ability to support and handle multiple paths or segment lists for an SR policy. This is needed for proper negotiation and operation of SR policies in relation to load sharing. When configured to **false**, the router disables the advertisement of the multipath capability in the Open message.
Default	false
Introduced	26.3.R2

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Platforms	SAR Gen 2

sr-policy *boolean*

WARNING:
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Synopsis	Enable advertising SR-policy capability in Open message
Context	**configure** router *named-item-64* pcep pcc capability-advertisement sr-policy *boolean*
Tree	sr-policy
Description	When configured to **true**, the router advertises the SR-policy capability in the Open message, which allows the PCCs to signal their support for SR policies during PCEP session establishment. When configured to **false**, the router disables the advertisement of the SR policy in the Open message.
Default	false
Introduced	26.3.R2
Platforms	SAR Gen 2

dead-timer *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Configure dead timer
Context	**configure** router *named-item-64* pcep pcc dead-timer *number*
Tree	dead-timer
Range	1 to 255
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

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keepalive *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Configure keepalive
Context	**configure** router *named-item-64* pcep pcc keepalive *number*
Tree	keepalive
Range	1 to 255
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPv4 address of the PCEP speaker
Context	**configure** router *named-item-64* pcep pcc local-address *ipv4-unicast-address*
Tree	local-address
Description	This command configures the local IPv4 address of the PCEP speaker.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address-ipv6 *ipv6-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPv6 address of the PCEP speaker

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Context	**configure** router *named-item-64* pcep pcc local-address-ipv6 *ipv6-unicast-address*
Tree	local-address-ipv6
Description	This command configures the local IPv6 address of the PCEP speaker.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-srte-pce-init-lsps *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Configure max sr te pce init LSP
Context	**configure** router *named-item-64* pcep pcc max-srte-pce-init-lsps *number*
Tree	max-srte-pce-init-lsps
Range	0 to 8191
Default	8191
Introduced	25.3.R2
Platforms	SAR Gen 2

pce-associations

Synopsis	Enter the **pce-associations** context
Context	**configure** router *named-item-64* pcep pcc pce-associations
Tree	pce-associations
Description	Commands in this context configure PCE association groups.
Introduced	25.3.R2
Platforms	SAR Gen 2

diversity [assoc-name] *named-item*

Synopsis	Enter the **diversity** list instance
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item*
Tree	diversity
Description	Commands in this context create a named diversity association from which the parameters for the specified diversity association are configured.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**assoc-name**] *named-item*

Synopsis	Name of the association group
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item*
Tree	diversity
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

association-id *number*

Synopsis	Association ID for the diversity association group
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item* association-id *number*
Tree	association-id
Description	This command configures the diversity association ID. The user must specify an association ID.
Range	0 to 65535
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

association-source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address of the diversity association
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item* association-source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	association-source
Introduced	25.3.R2
Platforms	SAR Gen 2

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disjointness-reference *boolean*

Synopsis	Configure P-flag in the disjointness configuration TLV
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item* disjointness-reference *boolean*
Tree	disjointness-reference
Description	When configured to **true**, the router sets the P-flag in the disjointness configuration TLV. When the P-flag is set, it indicates that this LSP path is the reference path for the disjoint set of paths. The PCE must first compute the path of this LSP and then apply the requested disjointness type to compute the path of all other paths in the same diversity association ID. When configured to **false**, the router does not set the P-flag in the disjointness configuration TLV.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

disjointness-type *keyword*

Synopsis	Disjointness type for the association group
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item* disjointness-type *keyword*
Tree	disjointness-type
Options	strict, loose
Default	loose
Introduced	25.3.R2
Platforms	SAR Gen 2

diversity-type *keyword*

Synopsis	Diversity type for the association group
Context	**configure** router *named-item-64* pcep pcc pce-associations diversity *named-item* diversity-type *keyword*
Tree	diversity-type
Description	This command configures the diversity type for the association group.
Options	none, link, node, srlg-link, srlg-node
Default	none

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Introduced	25.3.R2
Platforms	SAR Gen 2

policy [assoc-name] *named-item*

Synopsis	Enter the **policy** list instance
Context	**configure** router *named-item-64* pcep pcc pce-associations policy *named-item*
Tree	policy
Description	Commands in this context create a named policy association from which the parameters for the specified policy association are configured.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**assoc-name**] *named-item*

Synopsis	Name of the association group
Context	**configure** router *named-item-64* pcep pcc pce-associations policy *named-item*
Tree	policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

association-id *number*

Synopsis	Association ID for the policy association group
Context	**configure** router *named-item-64* pcep pcc pce-associations policy *named-item* association-id *number*
Tree	association-id
Description	This command configures the policy association ID. The user must specify an association ID.
Range	0 to 65535
Default	0
Introduced	25.3.R2

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Platforms	SAR Gen 2

association-source *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address for the association
Context	**configure** router *named-item-64* pcep pcc pce-associations policy *named-item* association-source *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	association-source
Description	This command configures the source IP address of the policy association.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer** list instance
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Destination IP address of a PCE peer in a PCEP session
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the PCC peer

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Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Keychain for TCP-AO authentication between PCC and PCE
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Preference value of the peer
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)* preference *number*
Tree	preference
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-preference *keyword*

WARNING:
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Synopsis	Route preference to reach the PCE server
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)* route-preference *keyword*
Tree	route-preference
Description	This command specifies the routing preference to reach the PCE server. If the configured option is to use both in-band and out-of-band routes, the out-of-band routes in the management routing instance are used to reach the PCE server before the in-band routes in the Base routing instance.
Options	inband, outband, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-client-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TLS client profile name assigned to this PCC peer
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)* tls-client-profile *reference*
Tree	tls-client-profile
Reference	**configure** system security tls client-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-wait-timer *number*

WARNING:
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Synopsis	Time the PCC waits until declaring handshake failure
Context	**configure** router *named-item-64* pcep pcc peer *(ipv4-address-no-zone | ipv6-address-no-zone)* tls-wait-timer *number*
Tree	tls-wait-timer
Range	60 to 255
Units	seconds
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

redelegation-timer *number*

Synopsis	Configure redelegation-timer
Context	**configure** router *named-item-64* pcep pcc redelegation-timer *number*
Tree	redelegation-timer
Range	1 to 3600
Units	seconds
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

report-path-constraints *boolean*

Synopsis	Include LSP path constraints in PCE report messages
Context	**configure** router *named-item-64* pcep pcc report-path-constraints *boolean*
Tree	report-path-constraints
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

state-timer

Synopsis	Enter the **state-timer** context
Context	**configure** router *named-item-64* pcep pcc state-timer
Tree	state-timer

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Introduced	25.3.R2
Platforms	SAR Gen 2

timer *number*

Synopsis	Configure state-timer
Context	**configure** router *named-item-64* pcep pcc state-timer timer *number*
Tree	timer
Range	1 to 3600
Units	seconds
Default	180
Introduced	25.3.R2
Platforms	SAR Gen 2

timer-action *keyword*

Synopsis	State timer action remove/none
Context	**configure** router *named-item-64* pcep pcc state-timer timer-action *keyword*
Tree	timer-action
Options	none, remove
Default	remove
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-message-rate *number*

Synopsis	Configure unknown message rate
Context	**configure** router *named-item-64* pcep pcc unknown-message-rate *number*
Tree	unknown-message-rate
Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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pce

Synopsis	Enable the **pce** context
Context	**configure** router *named-item-64* pcep pce
Tree	pce
Description	Commands in this context configure PCE command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the PCEP session element
Context	**configure** router *named-item-64* pcep pce admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Keychain for TCP-AO authentication between PCC and PCE
Context	**configure** router *named-item-64* pcep pce authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

capability-advertisement

Synopsis	Enter the **capability-advertisement** context
Context	**configure** router *named-item-64* pcep pce capability-advertisement

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Tree	capability-advertisement
Description	Commands in this context configure the advertisement of an SR policy or multipath capability in the OPEN message.
Introduced	26.3.R2
Platforms	SAR Gen 2

multi-path *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable advertising multipath capability in Open message
Context	**configure** router *named-item-64* pcep pce capability-advertisement multi-path *boolean*
Tree	multi-path
Description	When configured to **true**, the router advertises the multipath capability in the Open message, which allows PCEP speakers to signal their ability to support and handle multiple paths or segment lists for an SR policy. This is needed for proper negotiation and operation of SR policies in relation to load sharing. When configured to **false**, the router disables the advertisement of multipath capability in the Open message.
Default	false
Introduced	26.3.R2
Platforms	SAR Gen 2

sr-policy *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable advertising SR-policy capability in Open message
Context	**configure** router *named-item-64* pcep pce capability-advertisement sr-policy *boolean*
Tree	sr-policy
Description	When configured to **true**, the router advertises the SR-policy capability in the Open message, which allows the PCEs to signal their support for SR policies during PCEP session establishment. When configured to **false**, the router disables the advertisement of the SR-policy capability in the Open message.

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Default	false
Introduced	26.3.R2
Platforms	SAR Gen 2

dead-timer *number*

WARNING:
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Synopsis	Configure dead timer
Context	**configure** router *named-item-64* pcep pce dead-timer *number*
Tree	dead-timer
Range	1 to 255
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Configure keepalive
Context	**configure** router *named-item-64* pcep pce keepalive *number*
Tree	keepalive
Range	1 to 255
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPv4 address of the PCEP speaker
Context	**configure** router *named-item-64* pcep pce local-address *ipv4-unicast-address*
Tree	local-address
Description	This command configures the local IPv4 address of the PCEP speaker.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address-ipv6 *ipv6-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPv6 address of the PCEP speaker
Context	**configure** router *named-item-64* pcep pce local-address-ipv6 *ipv6-unicast-address*
Tree	local-address-ipv6
Description	This command configures the local IPv6 address of the PCEP speaker.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-server-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TLS server profile name assigned to this PCE
Context	**configure** router *named-item-64* pcep pce tls-server-profile *reference*
Tree	tls-server-profile

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Reference	**configure** system security tls server-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-wait-timer *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Configure tls-wait-timer
Context	**configure** router *named-item-64* pcep pce tls-wait-timer *number*
Tree	tls-wait-timer
Range	60 to 255
Units	seconds
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-message-rate *number*

Synopsis	Configure unknown message rate
Context	**configure** router *named-item-64* pcep pce unknown-message-rate *number*
Tree	unknown-message-rate
Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

pim

Synopsis	Enable the **pim** context
Context	**configure** router *named-item-64* pim
Tree	pim
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of PIM
Context	**configure** router *named-item-64* pim admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

apply-to *keyword*

Synopsis	IES and non-IES interfaces to create in PIM
Context	**configure** router *named-item-64* pim apply-to *keyword*
Tree	apply-to
Options	ies, non-ies, all, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enter the **import** context
Context	**configure** router *named-item-64* pim import
Tree	import
Introduced	25.3.R2
Platforms	SAR Gen 2

join-policy *reference*

Synopsis	Character limit for policy name
Context	**configure** router *named-item-64* pim import join-policy *reference*
Tree	join-policy

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Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

register-policy *reference*

Synopsis	Character limit for policy name
Context	**configure** router *named-item-64* pim import register-policy *reference*
Tree	register-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* pim interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* pim interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the PIM interface
Context	**configure** router *named-item-64* pim interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

assert-period *number*

Synopsis	Time for periodic refreshes of PIM Assert messages on an interface
Context	**configure** router *named-item-64* pim interface *interface-name* assert-period *number*
Tree	assert-period
Range	1 to 300
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enter the **bfd-liveness** context
Context	**configure** router *named-item-64* pim interface *interface-name* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Use Bidirectional Forwarding Detection for IPv4 on PIM interface
Context	**configure** router *named-item-64* pim interface *interface-name* bfd-liveness ipv4 *boolean*
Tree	ipv4

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Use Bidirectional Forwarding Detection for IPv6 on PIM interface
Context	**configure** router *named-item-64* pim interface *interface-name* bfd-liveness ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bsm-check-rtr-alert *boolean*

Synopsis	Check router alert option in bootstrap messages received
Context	**configure** router *named-item-64* pim interface *interface-name* bsm-check-rtr-alert *boolean*
Tree	bsm-check-rtr-alert
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Frequency at which PIM Hello messages are sent over this interface
Context	**configure** router *named-item-64* pim interface *interface-name* hello-interval *number*
Tree	hello-interval
Range	0 to 255
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-multiplier *number*

Synopsis	Multiplier to determine the hold time for PIM neighbor
Context	**configure** router *named-item-64* pim interface *interface-name* hello-multiplier *number*
Tree	hello-multiplier
Range	20 to 100
Default	35
Introduced	25.3.R2
Platforms	SAR Gen 2

improved-assert *boolean*

Synopsis	Allow improved assert processing on interface
Context	**configure** router *named-item-64* pim interface *interface-name* improved-assert *boolean*
Tree	improved-assert
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

instant-prune-echo *boolean*

Synopsis	Allow PIM to send an instant prune echo when router starts the prune pending timer for PIM interface
Context	**configure** router *named-item-64* pim interface *interface-name* instant-prune-echo *boolean*
Tree	instant-prune-echo
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* pim interface *interface-name* ipv4
Tree	ipv4

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Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group

Synopsis	Enter the **monitor-oper-group** context
Context	**configure** router *named-item-64* pim interface *interface-name* ipv4 monitor-oper-group
Tree	monitor-oper-group
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Operational group identifier
Context	**configure** router *named-item-64* pim interface *interface-name* ipv4 monitor-oper-group name *reference*
Tree	name
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

operation *keyword*

Synopsis	Operation performed when operational group is active
Context	**configure** router *named-item-64* pim interface *interface-name* ipv4 monitor-oper-group operation *keyword*
Tree	operation
Options	add, subtract, set
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-delta *number*

Synopsis	Delta priority with operation when operational group is active
Context	**configure** router *named-item-64* pim interface *interface-name* ipv4 monitor-oper-group priority-delta *number*

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Tree	priority-delta
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast *boolean*

Synopsis	Enable PIM interface operation
Context	**configure** router *named-item-64* pim interface *interface-name* ipv4 multicast *boolean*
Tree	multicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* pim interface *interface-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group

Synopsis	Enter the **monitor-oper-group** context
Context	**configure** router *named-item-64* pim interface *interface-name* ipv6 monitor-oper-group
Tree	monitor-oper-group
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Operational group identifier
Context	**configure** router *named-item-64* pim interface *interface-name* ipv6 monitor-oper-group name *reference*

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Tree	name
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

operation *keyword*

Synopsis	Operation performed when operational group is active
Context	**configure** router *named-item-64* pim interface *interface-name* ipv6 monitor-oper-group operation *keyword*
Tree	operation
Options	add, subtract, set
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-delta *number*

Synopsis	Delta priority with operation when operational group is active
Context	**configure** router *named-item-64* pim interface *interface-name* ipv6 monitor-oper-group priority-delta *number*
Tree	priority-delta
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast *boolean*

Synopsis	Enable PIM interface operation
Context	**configure** router *named-item-64* pim interface *interface-name* ipv6 multicast *boolean*
Tree	multicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-groups *number*

Synopsis	Maximum number of groups for the interface
Context	**configure** router *named-item-64* pim interface *interface-name* max-groups *number*
Tree	max-groups
Range	0 | 1 to 16000
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-senders *keyword*

Synopsis	Subnet matching for the incoming data packets
Context	**configure** router *named-item-64* pim interface *interface-name* multicast-senders *keyword*
Tree	multicast-senders
Options	auto, always, never
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	DR election priority for this interface
Context	**configure** router *named-item-64* pim interface *interface-name* priority *number*
Tree	priority
Description	This command sets the priority value to elect the DR. The DR election priority is a 32-bit unsigned number and the numerically larger priority is always preferred.
Range	1 to 4294967295
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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sticky-dr

Synopsis	Enable the **sticky-dr** context
Context	**configure** router *named-item-64* pim interface *interface-name* sticky-dr
Tree	sticky-dr
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	DR election priority for this interface
Context	**configure** router *named-item-64* pim interface *interface-name* sticky-dr priority *number*
Tree	priority
Range	1 to 4294967295
Default	1024
Introduced	25.3.R2
Platforms	SAR Gen 2

three-way-hello *boolean*

Synopsis	Allow three-way hello compatibility mode
Context	**configure** router *named-item-64* pim interface *interface-name* three-way-hello *boolean*
Tree	three-way-hello
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tracking-support *boolean*

Synopsis	Allow upstream routers to explicitly track join membership
Context	**configure** router *named-item-64* pim interface *interface-name* tracking-support *boolean*
Tree	tracking-support
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* pim ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of PIM operation for IPv4
Context	**configure** router *named-item-64* pim ipv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

rpf-table *keyword*

Synopsis	Route tables for RPF lookup
Context	**configure** router *named-item-64* pim ipv4 rpf-table *keyword*
Tree	rpf-table
Options	rtable-m, rtable-u, both
Default	rtable-u
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** router *named-item-64* pim ipv4 source-address
Tree	source-address
Description	Commands in this context configure the source IP address for PIM messages.
Introduced	25.3.R2

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Platforms	SAR Gen 2

register-message *ipv4-unicast-address*

Synopsis	Source IPv4 address for PIM register messages
Context	**configure** router *named-item-64* pim ipv4 source-address register-message *ipv4-unicast-address*
Tree	register-message
Description	This command configures the source IPv4 address for register messages in this PIM instance. The IP address can be set to any unicast address, regardless of whether it resides on the node. Ensure that the specified IP address is configured on the router as a loopback or interface IP address. When unconfigured, the source IP address for register messages is selected by choosing the smallest IP address from available interfaces on the node.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-assert-compatible-mode *boolean*

Synopsis	Enable SSM assert compatible mode
Context	**configure** router *named-item-64* pim ipv4 ssm-assert-compatible-mode *boolean*
Tree	ssm-assert-compatible-mode
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-default-range *boolean*

Synopsis	SSM default range
Context	**configure** router *named-item-64* pim ipv4 ssm-default-range *boolean*
Tree	ssm-default-range
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* pim ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of PIM operation for IPv6
Context	**configure** router *named-item-64* pim ipv6 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

rpf-table *keyword*

Synopsis	Route tables for RPF lookup
Context	**configure** router *named-item-64* pim ipv6 rpf-table *keyword*
Tree	rpf-table
Options	rtable-m, rtable-u, both
Default	rtable-u
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** router *named-item-64* pim ipv6 source-address
Tree	source-address
Description	Commands in this context configure the source IP address for PIM messages.
Introduced	25.3.R2

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Platforms	SAR Gen 2

register-message *ipv6-unicast-address*

Synopsis	Source IPv6 address for PIM register messages
Context	**configure** router *named-item-64* pim ipv6 source-address register-message *ipv6-unicast-address*
Tree	register-message
Description	This command configures the source IPv6 address for register messages in this PIM instance. The IP address can be set to any unicast address, regardless of whether it resides on the node. Ensure that the specified IP address is configured on the router as a loopback or interface IP address. When unconfigured, the source IP address for register messages is selected by choosing the smallest IP address from available interfaces on the node.
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-default-range *boolean*

Synopsis	SSM default range
Context	**configure** router *named-item-64* pim ipv6 ssm-default-range *boolean*
Tree	ssm-default-range
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mdt-spt *boolean*

Synopsis	Use SPT switchover for default MDT
Context	**configure** router *named-item-64* pim mdt-spt *boolean*
Tree	mdt-spt
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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non-dr-attract-traffic *boolean*

Synopsis	Attract traffic when the router is not the designated one
Context	**configure** router *named-item-64* pim non-dr-attract-traffic *boolean*
Tree	non-dr-attract-traffic
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pim-ssm-scaling *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable PIM-SSM scaling
Context	**configure** router *named-item-64* pim pim-ssm-scaling *boolean*
Tree	pim-ssm-scaling
Description	When configured to **true**, this command enables an increase of PIM SSM (S,G) scaling to a maximum of 256000 per system. The total maximum multicast capacity is, however, constrained by the lowest-performance FP. When the maximum link capacity from the fabric to the lowest-performance FP is reached, the link to that FP is overloaded, resulting in packet loss for all FPs. This capacity constraint is independent of whether the lowest-performance FP has a receiver on it or not. If the multicast management chassis per-plane total capacity is configured to an explicit value larger than that supported by the lowest-performance FP, then IMPM believes that there is more plane capacity available than there actually is and the result is (S,G) packet loss instead of blackholing. By setting the multicast management chassis per-plane total capacity to **dynamic**, the system automatically sets the switch fabric multicast plane capacity to the minimum value supported by the fabric and all line cards in the system. When PIM SSM scaling is enabled, the following multicast features are disabled: • DM • MoFRR • JP policy • InBand features (BIER and MLDP) • Extranet • ASM When configured to **false**, there is no increase of PIM SSM (S,G) scaling.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rp

Synopsis	Enter the **rp** context
Context	**configure** router *named-item-64* pim rp
Tree	rp
Introduced	25.3.R2
Platforms	SAR Gen 2

bootstrap

Synopsis	Enter the **bootstrap** context
Context	**configure** router *named-item-64* pim rp bootstrap
Tree	bootstrap
Introduced	25.3.R2
Platforms	SAR Gen 2

export *reference*

Synopsis	Character limit for policy name
Context	**configure** router *named-item-64* pim rp bootstrap export *reference*
Tree	export
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import *reference*

Synopsis	Character limit for policy name

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Context	**configure** router *named-item-64* pim rp bootstrap import *reference*
Tree	import
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** router *named-item-64* pim rp ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

anycast [ipv4-address] *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*

Synopsis	Add a list entry for **anycast**
Context	**configure** router *named-item-64* pim rp ipv4 anycast *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*
Tree	anycast
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-unicast-address*

Synopsis	Loopback IP address shared by routes in RP set
Context	**configure** router *named-item-64* pim rp ipv4 anycast *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*
Tree	anycast
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

rp-set-peer *ipv4-unicast-address*

Synopsis	Peer in the anycast RP-set
Context	**configure** router *named-item-64* pim rp ipv4 anycast *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*
Tree	anycast
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-rp-discovery *boolean*

Synopsis	Enable auto-RP discovery mode and auto-RP listener
Context	**configure** router *named-item-64* pim rp ipv4 auto-rp-discovery *boolean*
Tree	auto-rp-discovery
Description	When configured to **true**, the system enables the auto-RP protocol in discovery mode and the auto-RP listener functionality.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bsr-candidate

Synopsis	Enter the **bsr-candidate** context
Context	**configure** router *named-item-64* pim rp ipv4 bsr-candidate
Tree	bsr-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Candidate BSR IP address for Bootstrap Router election

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Context	**configure** router *named-item-64* pim rp ipv4 bsr-candidate address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate BSR
Context	**configure** router *named-item-64* pim rp ipv4 bsr-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-mask-len *number*

Synopsis	Length for bootstrap hash mask
Context	**configure** router *named-item-64* pim rp ipv4 bsr-candidate hash-mask-len *number*
Tree	hash-mask-len
Range	0 to 32
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Bootstrap priority of the router
Context	**configure** router *named-item-64* pim rp ipv4 bsr-candidate priority *number*
Tree	priority
Range	0 to 255
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

candidate *boolean*

Synopsis	Enable auto-RP to advertise candidate RP information
Context	**configure** router *named-item-64* pim rp ipv4 candidate *boolean*
Tree	candidate
Description	When configured to **true**, the auto-RP is enabled to advertise the candidate RP information. The auto-RP candidate RP announces the candidate RP messages on the 224.0.1.39 multicast address. This functionality is in addition to the listener functionality enabled by the auto RP discovery. When configured to **false**, the candidate RP information is not specified.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mapping-agent *boolean*

Synopsis	Enable the mapping agent on the node
Context	**configure** router *named-item-64* pim rp ipv4 mapping-agent *boolean*
Tree	mapping-agent
Description	When configured to **true**, the mapping agent is enabled on the node. The auto-RP MA observes the **auto-rp-announcement** messages, selects the RP and generates the RP discovery 224.0.1.40 messages. This functionality is in addition to the auto-RP discovery functionality.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rp-candidate

Synopsis	Enter the **rp-candidate** context
Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate
Tree	rp-candidate
Introduced	25.3.R2

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Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Local RP address
Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate address *ipv4-unicast-address*
Tree	address
Description	This command specifies the local RP address that is sent in the RP candidate advertisements to the Bootstrap Router.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate RP
Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ipv4-prefix] *ipv4-multicast-prefix*

Synopsis	Add a list entry for **group-range**
Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate group-range *ipv4-multicast-prefix*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-prefix**] *ipv4-multicast-prefix*

Synopsis	IPv4 address and prefix length

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Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate group-range *ipv4-multicast-prefix*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Time during which the neighboring router considers this router to be up
Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate holdtime *number*
Tree	holdtime
Range	5 to 255
Units	seconds
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Candidate RP priority
Context	**configure** router *named-item-64* pim rp ipv4 rp-candidate priority *number*
Tree	priority
Range	0 to 255
Default	192
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** router *named-item-64* pim rp ipv4 static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

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address [ipv4-address] *ipv4-unicast-address*

Synopsis	Enter the **address** list instance
Context	**configure** router *named-item-64* pim rp ipv4 static address *ipv4-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-unicast-address*

Synopsis	IPv4 address for the static RP
Context	**configure** router *named-item-64* pim rp ipv4 static address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-prefix [ipv4-prefix] *ipv4-multicast-prefix*

Synopsis	Add a list entry for **group-prefix**
Context	**configure** router *named-item-64* pim rp ipv4 static address *ipv4-unicast-address* group-prefix *ipv4-multicast-prefix*
Tree	group-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-prefix**] *ipv4-multicast-prefix*

Synopsis	IPv4 address and prefix length
Context	**configure** router *named-item-64* pim rp ipv4 static address *ipv4-unicast-address* group-prefix *ipv4-multicast-prefix*
Tree	group-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

override *boolean*

Synopsis	Change the precedence for static RP over dynamically learnt RP
Context	**configure** router *named-item-64* pim rp ipv4 static address *ipv4-unicast-address* override *boolean*
Tree	override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** router *named-item-64* pim rp ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

anycast [ipv6-address] *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*

Synopsis	Add a list entry for **anycast**
Context	**configure** router *named-item-64* pim rp ipv6 anycast *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*
Tree	anycast
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-unicast-address*

Synopsis	Loopback IP address shared by routes in RP set
Context	**configure** router *named-item-64* pim rp ipv6 anycast *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*
Tree	anycast
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

rp-set-peer *ipv6-unicast-address*

Synopsis	Peer in the anycast RP set
Context	**configure** router *named-item-64* pim rp ipv6 anycast *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*
Tree	anycast
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bsr-candidate

Synopsis	Enter the **bsr-candidate** context
Context	**configure** router *named-item-64* pim rp ipv6 bsr-candidate
Tree	bsr-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-unicast-address*

Synopsis	Candidate BSR IP address for Bootstrap Router election
Context	**configure** router *named-item-64* pim rp ipv6 bsr-candidate address *ipv6-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate BSR
Context	**configure** router *named-item-64* pim rp ipv6 bsr-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-mask-len *number*

Synopsis	Length for bootstrap hash mask
Context	**configure** router *named-item-64* pim rp ipv6 bsr-candidate hash-mask-len *number*
Tree	hash-mask-len
Range	0 to 128
Default	126
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Bootstrap priority of the router
Context	**configure** router *named-item-64* pim rp ipv6 bsr-candidate priority *number*
Tree	priority
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

embedded-rp

Synopsis	Enable the **embedded-rp** context
Context	**configure** router *named-item-64* pim rp ipv6 embedded-rp
Tree	embedded-rp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of embedded RP

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Context	**configure** router *named-item-64* pim rp ipv6 embedded-rp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Synopsis	Add a list entry for **group-range**
Context	**configure** router *named-item-64* pim rp ipv6 embedded-rp group-range *ipv6-multicast-prefix*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-multicast-prefix*

Synopsis	IPv6 address and prefix length
Context	**configure** router *named-item-64* pim rp ipv6 embedded-rp group-range *ipv6-multicast-prefix*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

rp-candidate

Synopsis	Enter the **rp-candidate** context
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate
Tree	rp-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv6-unicast-address*

Synopsis	Local RP address
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate address *ipv6-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate RP
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Synopsis	Add a list entry for **group-range**
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate group-range *ipv6-multicast-prefix*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-multicast-prefix*

Synopsis	IPv6 address and prefix length
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate group-range *ipv6-multicast-prefix*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

holdtime *number*

Synopsis	Time during which the neighboring router considers this router to be up
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate holdtime *number*
Tree	holdtime
Range	5 to 255
Units	seconds
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Candidate RP priority
Context	**configure** router *named-item-64* pim rp ipv6 rp-candidate priority *number*
Tree	priority
Range	0 to 255
Default	192
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** router *named-item-64* pim rp ipv6 static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv6-address] *ipv6-unicast-address*

Synopsis	Enter the **address** list instance
Context	**configure** router *named-item-64* pim rp ipv6 static address *ipv6-unicast-address*

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Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-unicast-address*

Synopsis	Static IP address of the RP
Context	**configure** router *named-item-64* pim rp ipv6 static address *ipv6-unicast-address*
Tree	address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-prefix [ipv6-prefix] *ipv6-multicast-prefix*

Synopsis	Add a list entry for **group-prefix**
Context	**configure** router *named-item-64* pim rp ipv6 static address *ipv6-unicast-address* group-prefix *ipv6-multicast-prefix*
Tree	group-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-multicast-prefix*

Synopsis	IPv6 address and prefix length
Context	**configure** router *named-item-64* pim rp ipv6 static address *ipv6-unicast-address* group-prefix *ipv6-multicast-prefix*
Tree	group-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

override *boolean*

Synopsis	Change the precedence for static RP over dynamically learnt RP

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Context	**configure** router *named-item-64* pim rp ipv6 static address *ipv6-unicast-address* override *boolean*
Tree	override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rpfv

Synopsis	Enter the **rpfv** context
Context	**configure** router *named-item-64* pim rpfv
Tree	rpfv
Introduced	25.3.R2
Platforms	SAR Gen 2

core *boolean*

Synopsis	Include proxy RPF vector for core
Context	**configure** router *named-item-64* pim rpfv core *boolean*
Tree	core
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mvpn *boolean*

Synopsis	Include proxy RPF vector for Inter-AS Rosen MVPN
Context	**configure** router *named-item-64* pim rpfv mvpn *boolean*
Tree	mvpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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spt-switchover [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **spt-switchover** list instance
Context	**configure** router *named-item-64* pim spt-switchover *(ipv4-prefix | ipv6-prefix)*
Tree	spt-switchover
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP address and mask length
Context	**configure** router *named-item-64* pim spt-switchover *(ipv4-prefix | ipv6-prefix)*
Tree	spt-switchover
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *(number | keyword)*

Synopsis	SPT switchover threshold
Context	**configure** router *named-item-64* pim spt-switchover *(ipv4-prefix | ipv6-prefix)* threshold *(number | keyword)*
Tree	threshold
Range	1 to 4294967294
Units	kilobps
Options	infinity
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-groups

Synopsis	Enter the **ssm-groups** context
Context	**configure** router *named-item-64* pim ssm-groups
Tree	ssm-groups

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Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Add a list entry for **group-range**
Context	**configure** router *named-item-64* pim ssm-groups group-range *(ipv4-prefix | ipv6-prefix)*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP address and mask length
Context	**configure** router *named-item-64* pim ssm-groups group-range *(ipv4-prefix | ipv6-prefix)*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	**configure** router *named-item-64* radius
Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

server [name] *named-item*

Synopsis	Enter the **server** list instance
Context	**configure** router *named-item-64* radius server *named-item*
Tree	server
Max. instances	64

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	External RADIUS server name
Context	**configure** router *named-item-64* radius server *named-item*
Tree	server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-coa *boolean*

Synopsis	Process Change of Authorization (CoA) messages
Context	**configure** router *named-item-64* radius server *named-item* accept-coa *boolean*
Tree	accept-coa
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

acct-port *number*

Synopsis	UDP port number of the RADIUS for accounting events
Context	**configure** router *named-item-64* radius server *named-item* acct-port *number*
Tree	acct-port
Range	1 to 65535
Default	1813
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the RADIUS server
Context	**configure** router *named-item-64* radius server *named-item* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

auth-port *number*

Synopsis	UDP port number of the RADIUS to be used as match criteria
Context	**configure** router *named-item-64* radius server *named-item* auth-port *number*
Tree	auth-port
Range	1 to 65535
Default	1812
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* radius server *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

insert-message-authenticator *boolean*

Synopsis	Insert Message-Authenticator in Access-Request
Context	**configure** router *named-item-64* radius server *named-item* insert-message-authenticator *boolean*

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Tree	insert-message-authenticator
Description	When configured to **true**, the router inserts a Message-Authenticator attribute as the first attribute in Access-Request messages.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

pending-requests-limit *number*

Synopsis	Limit of the number for pending RADIUS requests
Context	**configure** router *named-item-64* radius server *named-item* pending-requests-limit *number*
Tree	pending-requests-limit
Range	1 to 4096
Default	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

require-message-authenticator *boolean*

Synopsis	Require Message-Authenticator in Access-Request reply
Context	**configure** router *named-item-64* radius server *named-item* require-message-authenticator *boolean*
Tree	require-message-authenticator
Description	When configured to **true**, the router silently drops responses to Access-Requests without a Message-Authenticator attribute.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

secret *encrypted-leaf*

Synopsis	Secret key associated with this RADIUS server
Context	**configure** router *named-item-64* radius server *named-item* secret *encrypted-leaf*
Tree	secret

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Description	This command specifies the secret key associated with this RADIUS server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rip

Synopsis	Enable the **rip** context
Context	**configure** router *named-item-64* rip
Tree	rip
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIP instance
Context	**configure** router *named-item-64* rip admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication password passed between RIP neighbors
Context	**configure** router *named-item-64* rip authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication password to be passed between RIP neighbors. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes.

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The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed.

When unconfigured, this command removes the authentication password from the configuration and disables authentication.

This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 102

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-type *keyword*

Synopsis Authentication type used between RIP neighbors

Context **configure** router *named-item-64* rip authentication-type *keyword*

Tree authentication-type

Description This command sets the type of authentication to be used between RIP neighbors.

The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed.

When unconfigured, this command removes the authentication type from the configuration and effectively disables authentication.

Options none, password, md5, md20

Default none

Introduced 25.3.R2

Platforms SAR Gen 2

bfd-liveness *boolean*

Synopsis Enable BFD to control the state of protocol adjacency

Context **configure** router *named-item-64* rip bfd-liveness *boolean*

Tree bfd-liveness

Description When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency.

When configured to **false**, this command removes BFD from the associated protocol adjacency.

Default false

Introduced 25.3.R2

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Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** router *named-item-64* rip check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* rip description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** router *named-item-64* rip export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent

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Context	**configure** router *named-item-64* rip export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** router *named-item-64* rip export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies to determine exported routes
Context	**configure** router *named-item-64* rip export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *named-item*

Synopsis	Enter the **group** list instance
Context	**configure** router *named-item-64* rip group *named-item*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**group-name**] *named-item*

Synopsis	RIP group name
Context	**configure** router *named-item-64* rip group *named-item*
Tree	group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of RIP neighbor interface group
Context	**configure** router *named-item-64* rip group *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication password passed between RIP neighbors
Context	**configure** router *named-item-64* rip group *named-item* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication password to be passed between RIP neighbors. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, the authentication password is removed from the configuration and authentication is disabled. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

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String length	1 to 102
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type
Context	**configure** router *named-item-64* rip group *named-item* authentication-type *keyword*
Tree	authentication-type
Description	This command configures the type of authentication to be used. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication type from the configuration and effectively disables authentication.
Options	none, password, md5, md20
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** router *named-item-64* rip group *named-item* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** router *named-item-64* rip group *named-item* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages.

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When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.

Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* rip group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** router *named-item-64* rip group *named-item* export-policy *reference*
Tree	export-policy
Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** router *named-item-64* rip group *named-item* import-policy *reference*
Tree	import-policy

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Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes per RIP update message
Context	**configure** router *named-item-64* rip group *named-item* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from a RIP neighbor
Context	**configure** router *named-item-64* rip group *named-item* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIP
Context	**configure** router *named-item-64* rip group *named-item* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2

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Platforms	SAR Gen 2

neighbor [interface-name] *interface-name*

Synopsis	Enter the **neighbor** list instance
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Neighbor added through the interface to the RIP group
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name*
Tree	neighbor
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIP neighbor interface
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication password passed between RIP neighbors
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* authentication-key *encrypted-leaf*

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Tree	authentication-key
Description	This command sets the authentication password to be passed between RIP neighbors. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication password from the configuration and disables authentication. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* authentication-type *keyword*
Tree	authentication-type
Description	This command configures the type of authentication to be used. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication type from the configuration and effectively disables authentication.
Options	none, password, md5, md20
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency.

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When configured to **false**, this command removes BFD from the associated protocol adjacency.

Introduced 25.3.R2

Platforms SAR Gen 2

check-zero *boolean*

Synopsis Enable checking of mandatory zero fields

Context **configure** router *named-item-64* rip group *named-item* neighbor *interface-name* check-zero *boolean*

Tree check-zero

Description When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages.

When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.

Introduced 25.3.R2

Platforms SAR Gen 2

description *description*

Synopsis Text description

Context **configure** router *named-item-64* rip group *named-item* neighbor *interface-name* description *description*

Tree description

String length 1 to 80

String format 'string-not-all-spaces' must contain at least one non-space character

Introduced 25.3.R2

Platforms SAR Gen 2

export-policy *reference*

Synopsis Policies used to rule which routes are exported to RIP

Context **configure** router *named-item-64* rip group *named-item* neighbor *interface-name* export-policy *reference*

Tree export-policy

Description This command specifies the export route policies used to determine which routes are exported to RIP.

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	If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes per RIP update message
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-in *number*

Synopsis	Metric added to routes received from a RIP neighbor
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIP
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* receive *keyword*
Tree	receive

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Options	version-1, version-2, both, none
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIP version and method used to send RIP updates
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* send *keyword*
Tree	send
Options	none, version-1, broadcast, multicast, unicast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* timers
Tree	timers
Introduced	25.3.R2

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Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* timers update *number*

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Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-address [address] *ipv4-unicast-address*

Synopsis	Add a list entry for **unicast-address**
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* unicast-address *ipv4-unicast-address*
Tree	unicast-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis	Unicast address for the neighbor
Context	**configure** router *named-item-64* rip group *named-item* neighbor *interface-name* unicast-address *ipv4-unicast-address*
Tree	unicast-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** router *named-item-64* rip group *named-item* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** router *named-item-64* rip group *named-item* receive *keyword*
Tree	receive
Options	version-1, version-2, both, none
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIP version and method used to send RIP updates
Context	**configure** router *named-item-64* rip group *named-item* send *keyword*
Tree	send
Options	none, version-1, broadcast, multicast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** router *named-item-64* rip group *named-item* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context

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Context	**configure** router *named-item-64* rip group *named-item* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** router *named-item-64* rip group *named-item* timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** router *named-item-64* rip group *named-item* timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates

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Context	**configure** router *named-item-64* rip group *named-item* timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policies to decide routes for routing table
Context	**configure** router *named-item-64* rip import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the RIP message
Context	**configure** router *named-item-64* rip message-size *number*
Tree	message-size
Range	25 to 255
Default	25
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from a RIP neighbor
Context	**configure** router *named-item-64* rip metric-in *number*
Tree	metric-in

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Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIP
Context	**configure** router *named-item-64* rip metric-out *number*
Tree	metric-out
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** router *named-item-64* rip preference *number*
Tree	preference
Range	1 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** router *named-item-64* rip receive *keyword*
Tree	receive
Options	version-1, version-2, both, none
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

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send *keyword*

Synopsis	RIP version and method used to send RIP updates
Context	**configure** router *named-item-64* rip send *keyword*
Tree	send
Options	none, version-1, broadcast, multicast
Default	broadcast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** router *named-item-64* rip split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context
Context	**configure** router *named-item-64* rip timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

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flush *number*

Synopsis	RIP flush timer
Context	**configure** router *named-item-64* rip timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** router *named-item-64* rip timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** router *named-item-64* rip timers update *number*
Tree	update
Range	1 to 600
Units	seconds

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ripng

Synopsis	Enable the **ripng** context
Context	**configure** router *named-item-64* ripng
Tree	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIPng instance
Context	**configure** router *named-item-64* ripng admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** router *named-item-64* ripng bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** router *named-item-64* ripng check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* ripng description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** router *named-item-64* ripng export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** router *named-item-64* ripng export-limit log-percent *number*

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Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** router *named-item-64* ripng export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies to determine exported routes
Context	**configure** router *named-item-64* ripng export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *named-item*

Synopsis	Enter the **group** list instance
Context	**configure** router *named-item-64* ripng group *named-item*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**group-name**] *named-item*

Synopsis	RIP group name
Context	**configure** router *named-item-64* ripng group *named-item*
Tree	group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of RIPng neighbor interface group
Context	**configure** router *named-item-64* ripng group *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** router *named-item-64* ripng group *named-item* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

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check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** router *named-item-64* ripng group *named-item* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* ripng group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** router *named-item-64* ripng group *named-item* export-policy *reference*
Tree	export-policy
Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2

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Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** router *named-item-64* ripng group *named-item* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the message
Context	**configure** router *named-item-64* ripng group *named-item* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from the neighbor
Context	**configure** router *named-item-64* ripng group *named-item* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-out *number*

Synopsis	Metric added to routes exported into RIPng
Context	**configure** router *named-item-64* ripng group *named-item* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [interface-name] *interface-name*

Synopsis	Enter the **neighbor** list instance
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Neighbor added to the RIPng group through the interface
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name*
Tree	neighbor
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIPng neighbor
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* export-policy *reference*
Tree	export-policy
Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-size *number*

Synopsis	Maximum number of routes in the message
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from the neighbor
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIPng
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* preference *number*
Tree	preference

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Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* receive *keyword*
Tree	receive
Options	none, ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIPng version and method used to send RIPng updates
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* send *keyword*
Tree	send
Options	none, ripng, unicast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.

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Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200

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Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-address [address] *ipv6-unicast-address*

Synopsis	Add a list entry for **unicast-address**
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* unicast-address *ipv6-unicast-address*
Tree	unicast-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv6-unicast-address*

Synopsis	Unicast address for the neighbor
Context	**configure** router *named-item-64* ripng group *named-item* neighbor *interface-name* unicast-address *ipv6-unicast-address*
Tree	unicast-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Route preference
Context	**configure** router *named-item-64* ripng group *named-item* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** router *named-item-64* ripng group *named-item* receive *keyword*
Tree	receive
Options	none, ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIPng version and method used to send RIPng updates
Context	**configure** router *named-item-64* ripng group *named-item* send *keyword*
Tree	send
Options	none, ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** router *named-item-64* ripng group *named-item* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity).

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When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.

Introduced 25.3.R2

Platforms SAR Gen 2

timers

Synopsis Enable the **timers** context

Context **configure** router *named-item-64* ripng group *named-item* timers

Tree timers

Introduced 25.3.R2

Platforms SAR Gen 2

flush *number*

Synopsis RIP flush timer

Context **configure** router *named-item-64* ripng group *named-item* timers flush *number*

Tree flush

Description This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.

Range 1 to 1200

Units seconds

Notes This element is mandatory.

Introduced 25.3.R2

Platforms SAR Gen 2

timeout *number*

Synopsis RIP timeout timer

Context **configure** router *named-item-64* ripng group *named-item* timers timeout *number*

Tree timeout

Description This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.

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Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** router *named-item-64* ripng group *named-item* timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policies to decide routes for routing table
Context	**configure** router *named-item-64* ripng import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the message
Context	**configure** router *named-item-64* ripng message-size *number*
Tree	message-size
Range	25 to 255

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Default	25
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from the neighbor
Context	**configure** router *named-item-64* ripng metric-in *number*
Tree	metric-in
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIPng
Context	**configure** router *named-item-64* ripng metric-out *number*
Tree	metric-out
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** router *named-item-64* ripng preference *number*
Tree	preference
Range	1 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** router *named-item-64* ripng receive *keyword*
Tree	receive
Options	none, ripng
Default	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIPng version and method used to send RIPng updates
Context	**configure** router *named-item-64* ripng send *keyword*
Tree	send
Options	none, ripng
Default	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** router *named-item-64* ripng split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**, this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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timers

Synopsis	Enable the **timers** context
Context	**configure** router *named-item-64* ripng timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** router *named-item-64* ripng timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** router *named-item-64* ripng timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** router *named-item-64* ripng timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *router-id*

Synopsis	Unique router ID for the router in the AS
Context	**configure** router *named-item-64* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp

Synopsis	Enable the **rsvp** context
Context	**configure** router *named-item-64* rsvp
Tree	rsvp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of RSVP
Context	**configure** router *named-item-64* rsvp admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-over-bypass *boolean*

Synopsis	Enable MD5 authentication over bypass LSP of PLR and MP
Context	**configure** router *named-item-64* rsvp authentication-over-bypass *boolean*
Tree	authentication-over-bypass
Description	When configured to **true**, this command configures the MD5 authentication over the bypass LSP of all Point of Local Repairs (PLRs) and Merge Points (MPs) on the router. Only enable this command when the TE interfaces in the RSVP-TE network use the same MD5 authentication parameters. When a Point of Local Repair (PLR) activates a bypass LSP towards a Merge Point (MP), by default, the INTEGRITY object corresponding to the bypass LSP interface is not added to a transmitted RSVP message except for packets of routed RSVP messages (Resv, Srefresh, and ACK), and only when the packet is intended for a bypass LSP endpoint (PLR or MP) that is a directly connected neighbor. When this command is enabled, the INTEGRITY object of the interface corresponding to the bypass LSP is added to a transmitted RSVP message regardless of whether the bypass LSP endpoint (PLR or MP) is a directly connected RSVP neighbor. The INTEGRITY object is included with the following RSVP messages: Path, PathTear, Path Err, Resv, ResvTear, ResvErr, Srefresh, and ACK. In all cases, an RSVP message received from a PLR or a MP (sender address in the SenderTemplate oe FilterSpec is different from an Extended Tunnel Id in a Session Object), and which includes the INTEGRITY object is authenticated against the bypass LSP interface. An RSVP message received from a PLR or MP without the INTEGRITY object is also accepted. When configured to **false**, the router disables MD5 authentication over bypass LSP of the PLRs and MPs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

diffserv-te

Synopsis	Enable the **diffserv-te** context
Context	**configure** router *named-item-64* rsvp diffserv-te
Tree	diffserv-te
Introduced	25.3.R2

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Platforms	SAR Gen 2

admission-control-model *keyword*

Synopsis	Parameters for the DiffServ TE node
Context	**configure** router *named-item-64* rsvp diffserv-te admission-control-model *keyword*
Tree	admission-control-model
Options	mam, rdm
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type-bw

Synopsis	Enter the **class-type-bw** context
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw
Tree	class-type-bw
Introduced	25.3.R2
Platforms	SAR Gen 2

ct0 *number*

Synopsis	RSVP interface bandwidth percentage for class type 0
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct0 *number*
Tree	ct0
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ct1 *number*

Synopsis	RSVP interface bandwidth percentage for class type 1
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct1 *number*
Tree	ct1

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Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ct2 *number*

Synopsis	RSVP interface bandwidth percentage for class type 2
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct2 *number*
Tree	ct2
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ct3 *number*

Synopsis	RSVP interface bandwidth percentage for class type 3
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct3 *number*
Tree	ct3
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ct4 *number*

Synopsis	RSVP interface bandwidth percentage for class type 4
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct4 *number*
Tree	ct4
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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ct5 *number*

Synopsis	RSVP interface bandwidth percentage for class type 5
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct5 *number*
Tree	ct5
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ct6 *number*

Synopsis	RSVP interface bandwidth percentage for class type 6
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct6 *number*
Tree	ct6
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ct7 *number*

Synopsis	RSVP interface bandwidth percentage for class type 7
Context	**configure** router *named-item-64* rsvp diffserv-te class-type-bw ct7 *number*
Tree	ct7
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

fc [fc-name] *keyword*

Synopsis	Enter the **fc** list instance
Context	**configure** router *named-item-64* rsvp diffserv-te fc *keyword*
Tree	fc

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**fc-name**] *keyword*

Synopsis	Forwarding class for this mapping
Context	**configure** router *named-item-64* rsvp diffserv-te fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type *number*

Synopsis	Diff-Serv Class Type (CT) for an LSP
Context	**configure** router *named-item-64* rsvp diffserv-te fc *keyword* class-type *number*
Tree	class-type
Range	0 to 7
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

te-class [te-class-number] *number*

Synopsis	Enter the **te-class** list instance
Context	**configure** router *named-item-64* rsvp diffserv-te te-class *number*
Tree	te-class
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**te-class-number**] *number*

Synopsis	TE class number
Context	**configure** router *named-item-64* rsvp diffserv-te te-class *number*
Tree	te-class
Range	0 to 7
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Class type (CT) associated with the TE class
Context	**configure** router *named-item-64* rsvp diffserv-te te-class *number* class-type *number*
Tree	class-type
Range	0 to 7
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	TE class priority
Context	**configure** router *named-item-64* rsvp diffserv-te te-class *number* priority *number*
Tree	priority
Range	0 to 7
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

entropy-label-capability *boolean*

Synopsis	Allow receiving and processing of the entropy label and ELI on incoming packets of RSVP LSPs
Context	**configure** router *named-item-64* rsvp entropy-label-capability *boolean*
Tree	entropy-label-capability
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enter the **graceful-restart** context
Context	**configure** router *named-item-64* rsvp graceful-restart
Tree	graceful-restart
Description	Commands in this context configure the local values for the recovery and the restart intervals used in the RSVP Graceful Restart helper. The values are configured globally in RSVP but separate instances of the timers are applied to each RSVP interface that has the RSVP Graceful Restart helper enabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-recovery *number*

Synopsis	Maximum recovery interval
Context	**configure** router *named-item-64* rsvp graceful-restart max-recovery *number*
Tree	max-recovery
Range	1 to 1800
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-restart *number*

Synopsis	Maximum restart interval
Context	**configure** router *named-item-64* rsvp graceful-restart max-restart *number*
Tree	max-restart
Range	1 to 300
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-shutdown *boolean*

Synopsis	Initiate a graceful shutdown of all RSVP interfaces on the node
Context	**configure** router *named-item-64* rsvp graceful-shutdown *boolean*
Tree	graceful-shutdown
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

implicit-null-label *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Signal the implicit null option for all RSVP LSPs
Context	**configure** router *named-item-64* rsvp implicit-null-label *boolean*
Tree	implicit-null-label
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

include-node-id-in-rro *boolean*

Synopsis	Include the node-id sub-object in the RRO (Record Route Object) on the RSVP instance

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Context	**configure** router *named-item-64* rsvp include-node-id-in-rro *boolean*
Tree	include-node-id-in-rro
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *reference*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* rsvp interface *reference*
Tree	interface
Description	Commands in this context configure the attributes of the RSVP protocol support on an IP interface. RSVP commands are not executed on an IP interface if RSVP is not enabled. The RSVP interface must be administratively disabled before it can be deleted. A corresponding MPLS interface must also be configured. The RSVP interface cannot be deleted without also deleting the MPLS interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Index for router RSVP interface
Context	**configure** router *named-item-64* rsvp interface *reference*
Tree	interface
Reference	**configure** router *named-item-64* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of RSVP on the IP interface
Context	**configure** router *named-item-64* rsvp interface *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication or hash key string
Context	**configure** router *named-item-64* rsvp interface *reference* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key for use between RSVP neighbors to authenticate RSVP messages. Authentication uses the MD5 message-based digest. When enabled on an RSVP interface, authentication of RSVP messages operates in both directions of the interface. A router maintains a security association using one authentication key for each interface to an RSVP neighbor. An RSVP neighbor transmits an authenticating digest of the RSVP message that is computed using the shared authentication key and a keyed-hash algorithm. The message digest is included in an INTEGRITY object, which also contains a flags field, a key identifier field, and a sequence number field. An RSVP neighbor uses the key together with the authentication algorithm to process received RSVP messages. The RSVP MD5 authentication complies to the procedures for RSVP message generation in RFC 2747, *RSVP Cryptographic Authentication*. The MD5 implementation does not support the authentication challenge procedures in RFC 2747. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** router *named-item-64* rsvp interface *reference* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** router *named-item-64* rsvp interface *reference* bfd-liveness *boolean*
Tree	bfd-liveness
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

class-type-bw

Synopsis	Enable the **class-type-bw** context
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw
Tree	class-type-bw
Introduced	25.3.R2
Platforms	SAR Gen 2

ct0 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 0
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct0 *number*
Tree	ct0
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

ct1 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 1
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct1 *number*
Tree	ct1
Range	0 to 100
Introduced	25.3.R2

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Platforms	SAR Gen 2

ct2 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 2
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct2 *number*
Tree	ct2
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

ct3 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 3
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct3 *number*
Tree	ct3
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

ct4 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 4
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct4 *number*
Tree	ct4
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

ct5 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 5
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct5 *number*
Tree	ct5
Range	0 to 100

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Introduced	25.3.R2
Platforms	SAR Gen 2

ct6 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 6
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct6 *number*
Tree	ct6
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

ct7 *number*

Synopsis	Percentage of link bandwidth for class type (CT) 7
Context	**configure** router *named-item-64* rsvp interface *reference* class-type-bw ct7 *number*
Tree	ct7
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart-helper-mode *boolean*

Synopsis	Enable Graceful Restart helper for the RSVP interface
Context	**configure** router *named-item-64* rsvp interface *reference* graceful-restart-helper-mode *boolean*
Tree	graceful-restart-helper-mode
Description	When configured to **true**, the system enables the RSVP Graceful Restart helper.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-shutdown *boolean*

Synopsis	Initiate a graceful shutdown of RSVP interface

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Context	**configure** router *named-item-64* rsvp interface *reference* graceful-shutdown *boolean*
Tree	graceful-shutdown
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between RSVP Hello messages
Context	**configure** router *named-item-64* rsvp interface *reference* hello-interval *number*
Tree	hello-interval
Range	0 to 60
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

implicit-null-label *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Signal the implicit null label value for all LSPs
Context	**configure** router *named-item-64* rsvp interface *reference* implicit-null-label *boolean*
Tree	implicit-null-label
Introduced	25.3.R2
Platforms	SAR Gen 2

refresh-reduction

Synopsis	Enable the **refresh-reduction** context
Context	**configure** router *named-item-64* rsvp interface *reference* refresh-reduction
Tree	refresh-reduction
Introduced	25.3.R2

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Platforms	SAR Gen 2

reliable-delivery *boolean*

Synopsis	Reliable delivery of RSVP messages over the RSVP interface
Context	**configure** router *named-item-64* rsvp interface *reference* refresh-reduction reliable-delivery *boolean*
Tree	reliable-delivery
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

subscription *number*

Synopsis	Percentage of the link bandwidth to use for reservation
Context	**configure** router *named-item-64* rsvp interface *reference* subscription *number*
Tree	subscription
Range	0 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

te-down-threshold

Synopsis	Enable the **te-down-threshold** context
Context	**configure** router *named-item-64* rsvp interface *reference* te-down-threshold
Tree	te-down-threshold
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Threshold level per interface
Context	**configure** router *named-item-64* rsvp interface *reference* te-down-threshold value *number*
Tree	value

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Range	0 to 100
Max. instances	16
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

te-up-threshold

Synopsis	Enable the **te-up-threshold** context
Context	**configure** router *named-item-64* rsvp interface *reference* te-up-threshold
Tree	te-up-threshold
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Threshold level per interface
Context	**configure** router *named-item-64* rsvp interface *reference* te-up-threshold value *number*
Tree	value
Range	0 to 100
Max. instances	16
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

keep-multiplier *number*

Synopsis	Value for the keep-multiplier to declare a reservation or neighbor as down
Context	**configure** router *named-item-64* rsvp keep-multiplier *number*
Tree	keep-multiplier

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Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

msg-pacing

Synopsis	Enable the **msg-pacing** context
Context	**configure** router *named-item-64* rsvp msg-pacing
Tree	msg-pacing
Introduced	25.3.R2
Platforms	SAR Gen 2

max-burst *number*

Synopsis	Maximum RSVP messages that are sent over a specified period when message pacing is enabled
Context	**configure** router *named-item-64* rsvp msg-pacing max-burst *number*
Tree	max-burst
Range	100 to 1000
Default	650
Introduced	25.3.R2
Platforms	SAR Gen 2

period *number*

Synopsis	Time for RSVP message pacing
Context	**configure** router *named-item-64* rsvp msg-pacing period *number*
Tree	period
Range	100 to 1000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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p2p-merge-point-abort-timer *number*

Synopsis	Merge pointer timer for P2P paths
Context	**configure** router *named-item-64* rsvp p2p-merge-point-abort-timer *number*
Tree	p2p-merge-point-abort-timer
Range	1 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

preemption-timer *number*

Synopsis	Preemption timer for the MPLS instance
Context	**configure** router *named-item-64* rsvp preemption-timer *number*
Tree	preemption-timer
Range	0 to 1800
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

rapid-retransmit-time *number*

Synopsis	Rapid retransmission interval to reliably deliver RSVP messages
Context	**configure** router *named-item-64* rsvp rapid-retransmit-time *number*
Tree	rapid-retransmit-time
Range	1 to 100
Units	deciseconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

rapid-retry-limit *number*

Synopsis	Rapid retry limit to reliably deliver RSVP messages

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Context	**configure** router *named-item-64* rsvp rapid-retry-limit *number*
Tree	rapid-retry-limit
Range	1 to 6
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

refresh-reduction-over-bypass *boolean*

Synopsis	Enable refresh reduction capabilities over tunnels
Context	**configure** router *named-item-64* rsvp refresh-reduction-over-bypass *boolean*
Tree	refresh-reduction-over-bypass
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

refresh-time *number*

Synopsis	Interval between refresh messages
Context	**configure** router *named-item-64* rsvp refresh-time *number*
Tree	refresh-time
Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

te-down-threshold *number*

Synopsis	Value for the te-down-threshold
Context	**configure** router *named-item-64* rsvp te-down-threshold *number*
Tree	te-down-threshold
Range	0 to 100
Max. instances	16

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

te-threshold-update

Synopsis	Enable the **te-threshold-update** context
Context	**configure** router *named-item-64* rsvp te-threshold-update
Tree	te-threshold-update
Introduced	25.3.R2
Platforms	SAR Gen 2

on-cac-failure *boolean*

Synopsis	CAC (Call Admission Control) failure-triggered IGP update
Context	**configure** router *named-item-64* rsvp te-threshold-update on-cac-failure *boolean*
Tree	on-cac-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

update-timer *number*

Synopsis	Timer-based IGP updates
Context	**configure** router *named-item-64* rsvp te-threshold-update update-timer *number*
Tree	update-timer
Range	1 to 300
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

te-up-threshold *number*

Synopsis	Value for the te-up-threshold
Context	**configure** router *named-item-64* rsvp te-up-threshold *number*

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Tree	te-up-threshold
Range	0 to 100
Max. instances	16
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-routing

Synopsis	Enter the **segment-routing** context
Context	**configure** router *named-item-64* segment-routing
Tree	segment-routing
Description	Commands in this context configure protocol-independent options for segment routing.
Introduced	25.3.R2
Platforms	SAR Gen 2

maintenance-policy [policy-name] *named-item*

Synopsis	Enter the **maintenance-policy** list instance
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item*
Tree	maintenance-policy
Description	Commands in this context configure a named maintenance policy that can be applied to SR policy candidate paths that are either statically configured or imported via BGP.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *named-item*

Synopsis	Maintenance policy name
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item*
Tree	maintenance-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the maintenance policy
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* admin-state *keyword*
Tree	admin-state
Description	This command sets the administrative state of the maintenance policy. A maintenance policy must be administratively disabled to change any of the parameters. When a maintenance template is administratively disabled, all applicable candidate paths are removed from the data path.
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable seamless BFD for segment lists of candidate path
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables seamless BFD on every segment list of an SR policy candidate path to which the maintenance policy is applied. The BFD template configures the parameters for the BFD session. When configured to **false**, seamless BFD is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-template *reference*

WARNING:
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Synopsis	BFD template to be used by seamless BFD
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* bfd-template *reference*
Tree	bfd-template
Description	This command references a named BFD template to be used by seamless BFD. A BFD template must exist on the system before being referenced from a maintenance policy. The template specifies parameters that are used by the BFD session, such as the minimum transmit and receive control packet timer intervals.
Reference	**configure** bfd bfd-template *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down-timer *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Hold down timer for SR policy candidate paths
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* hold-down-timer *number*
Tree	hold-down-timer
Description	This command configures the hold down timer for the maintenance policy. The purpose of the timer is to prevent bouncing of the SR policy path state if S-BFD sessions associated with the segment lists flap, causing the threshold to be repeatedly crossed in a short period of time. The timer is started when the number of up S-BFD sessions drops below the threshold. The SR policy path is not considered to be up again until the hold down timer has expired and the number of up S-BFD sessions reaches or exceeds the threshold and the internal hold timer is not running. If the revert timer is also configured, the revert timer is not started until after the number of up S-BFD sessions equals or exceeds the threshold and the hold down timer for the primary candidate path has expired.
Range	0 to 5000

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Units	deciseconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Protection mode for SR policy candidate paths
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* mode *keyword*
Tree	mode
Description	This command specifies the data path programming and protection mechanism for SR policy candidate paths to which the maintenance policy is applied.
Options	none, ecmp-protected, linear
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

return-path-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	S-BFD return-path label
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* return-path-label *number*
Tree	return-path-label
Description	This command configures the S-BFD session to echo mode and adds an additional MPLS label to the bottom of the label stack for the S-BFD packet. The command applies to the initiator of the S-BFD sessions. The return-path label may be a binding SID for an SR policy or other MPLS path configured on the reflector router. Instead of being routed through the IGP path, the S-BFD packet returns to the initiator through this MPLS return path.

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If the command is deleted, S-BFD returns to asynchronous mode and no return-path label is pushed by the initiator node. Any S-BFD packets for this LSP or path that the reflector receives are routed through the IGP path.

Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-timer *number*

Synopsis	Revert timer for SR policy candidate paths
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* revert-timer *number*
Tree	revert-timer
Description	This command configures the revert timer for SR Policy candidate paths. The revert timer is started when the primary path recovers (the number of S-BFD sessions that are up equals or exceeds the threshold value and the hold down timer has expired). When the timer expires, the system reverts to the primary path.
Range	0 to 4320
Units	minutes
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Minimum number of up S-BFD sessions for up path status
Context	**configure** router *named-item-64* segment-routing maintenance-policy *named-item* threshold *number*
Tree	threshold
Description	This command configures the minimum number of S-BFD sessions that must be up for the SR policy candidate path to be considered up. If the number of up sessions is below this threshold value, the policy candidate path is marked as BFD degraded by the system. This command is only valid in the **ecmp-protected** mode.
Range	1 to 32

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Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-mpls

Synopsis	Enter the **sr-mpls** context
Context	**configure** router *named-item-64* segment-routing sr-mpls
Tree	sr-mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-sids [interface-name] *reference*

Synopsis	Enter the **prefix-sids** list instance
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference*
Tree	prefix-sids
Description	Commands in this context configure the prefix SIDs for an interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Loopback interface name that owns prefix to advertise
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference*
Tree	prefix-sids
Reference	**configure** router *named-item-64* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo [flex-algo-id] *number*

Synopsis	Enter the **flex-algo** list instance

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Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number*
Tree	flex-algo
Max. instances	7
Introduced	25.7.R1
Platforms	SAR Gen 2

[**flex-algo-id**] *number*

Synopsis	Flexible algorithm ID
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number*
Tree	flex-algo
Range	128 to 255
Notes	This element is part of a list key.
Introduced	25.7.R1
Platforms	SAR Gen 2

ipv4-sid

Synopsis	Enable the **ipv4-sid** context
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number* ipv4-sid
Tree	ipv4-sid
Description	Commands in this context configure IPv4 SIDs associated with the flexible algorithm instances on the shared loopback interfaces used with IS-IS or OSPF.
Introduced	25.7.R1
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for the interface
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number* ipv4-sid index *number*
Tree	index
Range	0 to 4294967295

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Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.7.R1
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number* ipv4-sid label *number*
Tree	label
Range	32 to 1048575
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.7.R1
Platforms	SAR Gen 2

ipv6-sid

Synopsis	Enable the **ipv6-sid** context
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number* ipv6-sid
Tree	ipv6-sid
Description	Commands in this context configure IPv6 SIDs associated with the flexible algorithm instances on the shared loopback interfaces used with IS-IS or OSPF.
Introduced	25.7.R1
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for the interface
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number* ipv6-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.7.R1
Platforms	SAR Gen 2

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label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* flex-algo *number* ipv6-sid label *number*
Tree	label
Range	32 to 1048575
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.7.R1
Platforms	SAR Gen 2

ipv4-sid

Synopsis	Enable the **ipv4-sid** context
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* ipv4-sid
Tree	ipv4-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for the interface
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* ipv4-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* ipv4-sid label *number*
Tree	label

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Range	32 to 1048575
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-sid

Synopsis	Enable the **ipv6-sid** context
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* ipv6-sid
Tree	ipv6-sid
Introduced	25.3.R2
Platforms	SAR Gen 2

index *number*

Synopsis	Node SID index for the interface
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* ipv6-sid index *number*
Tree	index
Range	0 to 4294967295
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

label *number*

Synopsis	Label value for the node SID
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* ipv6-sid label *number*
Tree	label
Range	32 to 1048575
Notes	The following elements are part of a choice: **index** or **label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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node-sid *boolean*

Synopsis	Assign a node SID to the prefix referencing the router
Context	**configure** router *named-item-64* segment-routing sr-mpls prefix-sids *reference* node-sid *boolean*
Tree	node-sid
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policies

Synopsis	Enter the **sr-policies** context
Context	**configure** router *named-item-64* segment-routing sr-policies
Tree	sr-policies
Description	Commands in this context configure SR policies. An SR policy specifies the traffic to be matched by the policy and actions to take on the matched traffic by applying the instructions encoded in one or more segment lists.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of segment routing policies
Context	**configure** router *named-item-64* segment-routing sr-policies admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

reserved-label-block *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Reserved local block for segment routing policies
Context	**configure** router *named-item-64* segment-routing sr-policies reserved-label-block *reference*
Tree	reserved-label-block
Reference	**configure** router *named-item-64* mpls-labels reserved-label-block *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

static-policy [name] *named-item-64*

Synopsis	Enter the **static-policy** list instance
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64*
Tree	static-policy
Description	Commands in this context configure an SR policy. The resulting SR policy is targeted for local installation or propagation by BGP to another router.
Max. instances	32768
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item-64*

Synopsis	Name of the static SR policy
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64*
Tree	static-policy
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of segment routing static policy

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Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

binding-sid *number*

Synopsis	Binding Segment ID for SR policy to upstream routers
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* binding-sid *number*
Tree	binding-sid
Description	This command associates a B-SID with a statically defined SR policy. This is a mandatory command to enable the SR policy. The B-SID label must be an available label in the reserved label block range.
Range	32 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

color *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Color value for static policy
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* color *number*
Tree	color
Description	This command configures a color value to associate with a statically defined segment-routing policy. This is a mandatory command to enable the SR policy.
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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distinguisher *number*

WARNING:
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Synopsis	Unique value for a policy
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* distinguisher *number*
Tree	distinguisher
Description	This command configures a distinguisher value to associate with a statically defined SR policy. This is a mandatory command for non-local SR policies. Every non-local SR policy must have a unique distinguisher value. When a non-local static SR policy is imported into BGP and originated as a BGP route, the configured distinguisher value is copied into the NLRI of the route.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination of the source-routed path
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint
Description	This command associates an IPv4 or IPv6 endpoint address with a statically defined SR policy. This association is mandatory when enabling an SR policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

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head-end *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)*

WARNING:
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Synopsis	Head-end address for this static policy
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* head-end *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)*
Tree	head-end
Description	This command associates a head-end location with a statically defined SR policy. The head end identifies the target router to install the policy. This is a mandatory command for enabling the SR policy.
Options	local
Introduced	25.3.R2
Platforms	SAR Gen 2

maintenance-policy *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Policy name
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* maintenance-policy *reference*
Tree	maintenance-policy
Reference	**configure** router *named-item-64* segment-routing maintenance-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pce-report *boolean*

Synopsis	Enable reporting of SR policy candidate path via PCEP
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* pce-report *boolean*
Tree	pce-report

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Description	When configured to **true**, the router reports the SR policy candidate path to a PCE through PCEP.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Preference value of this static policy
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* preference *number*
Tree	preference
Description	This command configures a preference value to associate with a statically defined SR policy. When there are multiple policies for the same (color, endpoint) combination that are targeted for local installation, only one is selected as the active path for the (color, endpoint). In this selection process, which considers both static local policies and BGP-signaled policies, the policy with the highest preference value is preferred over all policies with a lower preference value.
Max. range	0 to 4294967295
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-list [seg-list-index] *number*

Synopsis	Enter the **segment-list** list instance
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number*
Tree	segment-list
Description	Commands in this context configure a segment list for the statically defined segment routing policy.
Max. instances	32

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**seg-list-index**] *number*

Synopsis	Index for identifying a specific segment list
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number*
Tree	segment-list
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of segment list for static policy
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

segment [segment-index] *number*

Synopsis	Enter the **segment** list instance
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number* segment *number*
Tree	segment
Description	Commands in this context configure a segment inside a segment-list of a statically-defined segment routing policy candidate path. A segment list of a statically-defined SR policy candidate path of type **sr-mpls** can only accept a segment of type **mpls-label**.

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A segment list of a statically-defined SR policy candidate path of type **srv6** can only accept a segment of type **srv6-sid**. However, you can mix SRv6 segments derived from both classic SRv6 and micro-segment SRv6 locators.

Max. instances	24
Introduced	25.3.R2
Platforms	SAR Gen 2

[**segment-index**] *number*

Synopsis	Index for identifying a segment in a segment list
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number* segment *number*
Tree	segment
Description	This command configures the index for identifying a segment in a segment list. Each segment list can have up to 11 segments for SR-MPLS policies, and 24 segments for an SRv6 segment list which only includes micro-segments. For an SRv6 segment list that mixes regular and micro-segments, up to 7 regular segments can be configured.
Range	1 to 24
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls-label *number*

Synopsis	Value for the MPLS label
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number* segment *number* mpls-label *number*
Tree	mpls-label
Range	0 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

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weight *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Weight of the segment list
Context	**configure** router *named-item-64* segment-routing sr-policies static-policy *named-item-64* segment-list *number* weight *number*
Tree	weight
Description	This command associates an optional weight value with a segment list of a statically defined segment routing policy to achieve weighted ECMP behavior. When any segment list in the active policy has a weight greater than 1, traffic matching the policy is load-balanced across the segment lists according to their relative weight values.
Max. range	0 to 4294967295
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

sfm-overload

Synopsis	Enable the **sfm-overload** context
Context	**configure** router *named-item-64* sfm-overload
Tree	sfm-overload
Introduced	25.3.R2
Platforms	SAR Gen 2

holdoff-time *number*

Synopsis	Delay in detecting SFM failures and setting overload
Context	**configure** router *named-item-64* sfm-overload holdoff-time *number*
Tree	holdoff-time
Range	1 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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sgt-qos

Synopsis	Enter the **sgt-qos** context
Context	**configure** router *named-item-64* sgt-qos
Tree	sgt-qos
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p

Synopsis	Enter the **dot1p** context
Context	**configure** router *named-item-64* sgt-qos dot1p
Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

application [dot1p-app-name] *keyword*

Synopsis	Enter the **application** list instance
Context	**configure** router *named-item-64* sgt-qos dot1p application *keyword*
Tree	application
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dot1p-app-name**] *keyword*

Synopsis	Dot1p application ID that generates control traffic
Context	**configure** router *named-item-64* sgt-qos dot1p application *keyword*
Tree	application
Options	arp, isis, pppoe
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dot1p *(keyword | number)*

Synopsis	Dot1p value to the traffic generated by this application
Context	**configure** router *named-item-64* sgt-qos dot1p application *keyword* dot1p *(keyword | number)*
Tree	dot1p
Range	0 to 7
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp

Synopsis	Enter the **dscp** context
Context	**configure** router *named-item-64* sgt-qos dscp
Tree	dscp
Introduced	25.3.R2
Platforms	SAR Gen 2

application [dscp-app-name] *keyword*

Synopsis	Enter the **application** list instance
Context	**configure** router *named-item-64* sgt-qos dscp application *keyword*
Tree	application
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-app-name**] *keyword*

Synopsis	DSCP application identifier on the NOKIA SR OS router that generates control traffic over IP

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Context	**configure** router *named-item-64* sgt-qos dscp application *keyword*
Tree	application
Options	bgp, cflowd, dhcp, dns, ftp, icmp, igmp, l2tp, ldp, mld, msdp, ndis, ntp, ospf, pim, radius, rip, rsvp, snmp, snmp-notification, srrp, ssh, syslog, tacplus, telnet, tftp, traceroute, vrrp, ptp, igmp-reporter, gtp, sflow, diameter, pcep, call-trace, bmp, grpc, mtrace2, http, mpls-udp-return, pfcp, ibcp, bfd
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *(keyword | number)*

Synopsis	DSCP value to the traffic generated by this application
Context	**configure** router *named-item-64* sgt-qos dscp application *keyword* dscp *(keyword | number)*
Tree	dscp
Range	0 to 63
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp-map [dscp-name] *keyword*

Synopsis	Enter the **dscp-map** list instance
Context	**configure** router *named-item-64* sgt-qos dscp dscp-map *keyword*
Tree	dscp-map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-name**] *keyword*

Synopsis	DSCP name mapped to forwarding class
Context	**configure** router *named-item-64* sgt-qos dscp dscp-map *keyword*

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Tree	dscp-map
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Value for the forwarding class for this mapping
Context	**configure** router *named-item-64* sgt-qos dscp dscp-map *keyword* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

static-routes

Synopsis	Enter the **static-routes** context
Context	**configure** router *named-item-64* static-routes
Tree	static-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down

Synopsis	Enable the **hold-down** context
Context	**configure** router *named-item-64* static-routes hold-down

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Tree	hold-down
Description	Commands in this context enable the hold-down time feature globally for static routes in the system. The static route hold-down time is a mechanism to protect from rapid, fluctuating state changes of static routes resulting from issues with reachability because of link flap. The commands in this context apply to all static routes in the VPRN and the base router instance in which this hold-down time is configured in.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial *number*

Synopsis	Value for the initial hold-down time
Context	**configure** router *named-item-64* static-routes hold-down initial *number*
Tree	initial
Description	This command specifies the initial value of the hold-down time globally for static routes in the system. When a static route is ready to become active, it remains inactive for the hold-down time before activating the static-route. If, during this hold-down period, the static route becomes inactive again because of factors such as interface failure, the hold-down timer is reset, effectively postponing the activation of the route until the next opportunity.
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-value *number*

Synopsis	Maximum value of the hold-down time
Context	**configure** router *named-item-64* static-routes hold-down max-value *number*
Tree	max-value
Description	This command specifies the maximum value of the hold-down time globally for static routes in the system.
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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multiplier *number*

Synopsis	Multiplier of the previous hold-down time
Context	**configure** router *named-item-64* static-routes hold-down multiplier *number*
Tree	multiplier
Description	This command specifies the multiplier value by which the previous hold-down time is multiplied to calculate the new one. This value applies globally for static routes in the system.
Range	1 to 10
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

route [ip-prefix] *(ipv4-prefix | ipv6-prefix)* route-type *keyword*

Synopsis	Enter the **route** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword*
Tree	route
Description	Commands in this context create a static route entry. A prefix and netmask must be specified. After the static route context for the specified prefix and netmask has been created, additional options associated with the static route or routes may be specified through the inclusion of additional static route commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix and prefix length for the static routes
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword*
Tree	route
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-type *keyword*

Synopsis	Static route type
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword*
Tree	route
Options	unicast, multicast
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole

Synopsis	Enable the **blackhole** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole
Tree	blackhole
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole community *community*
Tree	community

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Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-bgp *boolean*

Synopsis	Derive static route next hop from BGP next hop value
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole dynamic-bgp *boolean*
Tree	dynamic-bgp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-icmp *boolean*

Synopsis	Send ICMP unreachable messages when received packets match a static route with black-hole next-hop
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole generate-icmp *boolean*
Tree	generate-icmp
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list
Tree	prefix-list

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Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* community *community*
Tree	community
String length	1 to 72
Max. instances	12
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-next-hop [interface-name] *interface-name*

Synopsis	Enter the **dhcp-next-hop** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name*
Tree	dhcp-next-hop
Introduced	26.7.R1
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name*
Tree	dhcp-next-hop
String length	1 to 32
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation

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Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	26.7.R1
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	26.7.R1
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	26.7.R1
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* metric *number*

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Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	26.7.R1
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	26.7.R1
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	26.7.R1
Platforms	SAR Gen 2

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indirect [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **indirect** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	indirect
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next-hop IP address used to reach the destination
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	indirect
Description	This command specifies the next-hop IP address used to reach the destination. The specified IP address can be either on the network side or the access side and is typically at least one hop away from the node.
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* community *community*

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Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

cpe-check [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **cpe-check** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Description	When configured, this command enables the Customer Premises Equipment (CPE) check feature and specifies the IP address of the target CPE device. This option initiates a background ICMP ping test to the configured target IP address. The IP address can either be an IPv4 address for IPv4 static routes or an IPv6 address for IPv6 static routes. To avoid possible circular references, the target IP address cannot exist in the same subnet as the static route subnet. This command is mutually exclusive with BFD support on a specific static route. **Note**: A node that is sourcing CPE-check packets waits an additional full interval before taking action, which gives the CPE time to respond. For example, with a drop-count of 3 and an interval of 1s, three CPE-check packets are sent out and the node waits for the duration of another interval before acting on the loss. Failure declaration may take extra time depending on the load, interval, and other factors. In line with multitasking, multi-priority operating principles of the node, and the relative priority of **cpe-ping**, the node paces these minor events.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the target CPE device

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Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Consecutive ping replies missed before CPE deemed down
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* drop-count *number*
Tree	drop-count
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between ICMP pings to target CPE IP address
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* interval *number*
Tree	interval
Range	1 to 255
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

log *boolean*

Synopsis	Log CPE connectivity checks transitions

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Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* log *boolean*
Tree	log
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

padding-size *number*

Synopsis	Padding size for CPE connectivity checks
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* padding-size *number*
Tree	padding-size
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* metric *number*

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Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list flag *keyword*

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Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-next-hop

Synopsis	Enter the **tunnel-next-hop** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop
Tree	tunnel-next-hop

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Introduced	25.3.R2
Platforms	SAR Gen 2

disallow-igp *boolean*

Synopsis	Do not resolve indirect static routes using IGP next-hops in RTM if no tunnel next-hops found in TTM
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop disallow-igp *boolean*
Tree	disallow-igp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

flex-algo *number*

Synopsis	Flexible Algorithm ID
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop flex-algo *number*
Tree	flex-algo
Range	128 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Tunnel next hop resolution to resolve indirect static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution *keyword*
Tree	resolution
Options	none, filter, any
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp *boolean*

Synopsis	Use LDP Route Forwarding Equivalence Class (FEC) tunneling for next-hop resolution
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter ldp *boolean*
Tree	ldp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-te

Synopsis	Enable the **rsvp-te** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter rsvp-te
Tree	rsvp-te
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp [lsp-name] *named-item-64*

Synopsis	Add a list entry for **lsp**
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter rsvp-te lsp *named-item-64*
Tree	lsp

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**lsp-name**] *named-item-64*

Synopsis	Labeled Switch Path name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter rsvp-te lsp *named-item-64*
Tree	lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis *boolean*

Synopsis	Use the SR ISIS tunneling mechanism to resolve next hop for the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter sr-isis *boolean*
Tree	sr-isis
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf *boolean*

Synopsis	Use SR OSPF tunneling for next-hop resolution
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter sr-ospf *boolean*
Tree	sr-ospf
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

sr-ospf3 *boolean*

Synopsis	Use SR OSPFv3 tunneling mechanism to resolve next-hop
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter sr-ospf3 *boolean*
Tree	sr-ospf3
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te

Synopsis	Enable the **sr-te** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter sr-te
Tree	sr-te
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp [lsp-name] *named-item-64*

Synopsis	Add a list entry for **lsp**
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter sr-te lsp *named-item-64*
Tree	lsp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lsp-name**] *named-item-64*

Synopsis	Labeled Switch Path name

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Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tunnel-next-hop resolution-filter sr-te lsp *named-item-64*
Tree	lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

cpe-check [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **cpe-check** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the target CPE device
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Consecutive ping replies missed before CPE deemed down
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* drop-count *number*
Tree	drop-count
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between ICMP pings to target CPE IP address
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* interval *number*
Tree	interval
Range	1 to 255
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

log *boolean*

Synopsis	Log CPE connectivity checks transitions
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* log *boolean*
Tree	log

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

padding-size *number*

Synopsis	Padding size for CPE connectivity checks
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* padding-size *number*
Tree	padding-size
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load-balancing weight for all of the ECMP next hops
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric *number*

Synopsis	Static route metric
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

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flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-tunnel [ipsec-tunnel-name] *named-item*

Synopsis	Enter the **ipsec-tunnel** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item*
Tree	ipsec-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipsec-tunnel-name**] *named-item*

Synopsis	IPsec tunnel name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* community *community*

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Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources

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Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-destination

Synopsis	Enter the **leak-destination** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* leak-destination
Tree	leak-destination
Description	Commands in this context configure a list of VPRNs that receive a leaked copy of the static route. When a VPRN service is added to this list, the static route is leaked into that VPRN if the following conditions are met: • all the configured next hops of the static route are direct next hops • the static route is an active route, or it is capable of immediately becoming an active route when a more-preferred route for the same prefix is removed Static routes leaked using this method appear as "VPN Leak" protocol routes in the route table of the VPRN.

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When a packet received by a VPRN matches a "VPN Leak" route leaked using this method, the packet is forwarded according to the configuration of the static route in the GRT, even if the static route is currently non-best in the GRT.

Introduced 25.3.R2

Platforms SAR Gen 2

router-instance [service-name] *reference*

Synopsis Add a list entry for **router-instance**

Context **configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* leak-destination router-instance *reference*

Tree router-instance

Introduced 25.3.R2

Platforms SAR Gen 2

[**service-name**] *reference*

Synopsis VPRN service name

Context **configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* leak-destination router-instance *reference*

Tree router-instance

Reference **configure** service vprn *service-name*

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

next-hop [ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis Enter the **next-hop** list instance

Context **configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*

Tree next-hop

Introduced 25.3.R2

Platforms SAR Gen 2

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[**ip-address**] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address of the directly-connected next hop
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	next-hop
Description	This command specifies the IP address of the directly-connected next hop. The IP address can either be on the network side or the access side on the node. The address must be associated with a network directly connected to a network configured on the node.
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Use Bidirectional Forwarding Detection on this static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-liveness *boolean*
Tree	bfd-liveness
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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community *community*

Synopsis	Community ID associated with the static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

cpe-check [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **cpe-check** list instance
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Description	When configured, this command enables the Customer Premises Equipment (CPE) check feature and specifies the IP address of the target CPE device. This option initiates a background ICMP ping test to the configured target IP address. The IP address can either be an IPv4 address for IPv4 static routes or an IPv6 address for IPv6 static routes. To avoid possible circular references, the target IP address cannot exist in the same subnet as the static route subnet. This command is mutually exclusive with BFD support on a specific static route. **Note**: A node that is sourcing CPE-check packets waits an additional full interval before taking action, which gives the CPE time to respond. For example, with a drop-count of 3 and an interval of 1s, three CPE-check packets are sent out and the node waits for the duration of another interval before acting on the loss. Failure declaration may take extra time depending on the load, interval, and other factors. In line with multitasking, multi-priority operating principles of the node, and the relative priority of **cpe-ping**, the node paces these minor events.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the target CPE device
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Consecutive ping replies missed before CPE deemed down
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* drop-count *number*
Tree	drop-count
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between ICMP pings to target CPE IP address
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* interval *number*
Tree	interval
Range	1 to 255
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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log *boolean*

Synopsis	Log CPE connectivity checks transitions
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* log *boolean*
Tree	log
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

padding-size *number*

Synopsis	Padding size for CPE connectivity checks
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* padding-size *number*
Tree	padding-size
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

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ldp-sync *boolean*

Synopsis	Use LDP synchronization feature for a static route
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* ldp-sync *boolean*
Tree	ldp-sync
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load-balancing weight for all of the ECMP next hops
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

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name *reference*

Synopsis	Prefix list name
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

validate-next-hop *boolean*

Synopsis	Track the state of the next hop in the IPv4 ARP Cache or the IPv6 Neighbor Cache
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* validate-next-hop *boolean*
Tree	validate-next-hop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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tag *number*

Synopsis	Static route tag
Context	**configure** router *named-item-64* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* tag *number*
Tree	tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

triggered-policy *boolean*

Synopsis	Trigger route policy re-evaluation
Context	**configure** router *named-item-64* triggered-policy *boolean*
Tree	triggered-policy
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-propagate

Synopsis	Enter the **ttl-propagate** context
Context	**configure** router *named-item-64* ttl-propagate
Tree	ttl-propagate
Description	Commands in this context configure TTL propagation for transit and locally generated packets in the Global Routing Table (GRT) and VPRN routing contexts.
Introduced	25.3.R2
Platforms	SAR Gen 2

label-route-local *keyword*

Synopsis	TTL propagation from IP header into label stack for local packets
Context	**configure** router *named-item-64* ttl-propagate label-route-local *keyword*
Tree	label-route-local
Options	none – Do not propagate TTL or hop-limit field value all – Propagate TTL or hop-limit field value

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Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

label-route-transit *keyword*

Synopsis	TTL propagation from IP header into label stack for transit packets
Context	**configure** router *named-item-64* ttl-propagate label-route-transit *keyword*
Tree	label-route-transit
Options	none – Do not propagate TTL or hop-limit field value all – Propagate TTL or hop-limit field value
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

lsr-label-route *keyword*

Synopsis	TTL propagation from IP header into label stack
Context	**configure** router *named-item-64* ttl-propagate lsr-label-route *keyword*
Tree	lsr-label-route
Options	none – Do not propagate TTL or hop-limit field value all – Propagate TTL or hop-limit field value
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-mpls-local *keyword*

Synopsis	TTL propagation for local CPM generated IP packets
Context	**configure** router *named-item-64* ttl-propagate sr-mpls-local *keyword*
Tree	sr-mpls-local
Description	This command configures TTL or hop-limit propagation for all segment routing MPLS tunnels carrying IPv4 or IPv6 packets. This applies to IPv4 and IPv6 packets of IGP, BGP unlabelled (except 6PE), and static routes in the base router whose next hop is resolved to a Segment Routing MPLS (SR-MPLS) tunnel of any of the following types: SR-ISIS, SR-OSPF, SR-OSPF3, SR-TE LSP, and SR policy.

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This command enables or disables propagation of the TTL or hop-limit field value of CPM originated IP packet to all labels in the segment routing transport label stack. Use the **sr-mpls-transit** command to configure TTL or hop-limit propagation for transit IP packets.

Options
none – Do not propagate TTL or hop-limit field value
all – Propagate TTL or hop-limit field value

Default all

Introduced 25.3.R2

Platforms SAR Gen 2

sr-mpls-transit *keyword*

Synopsis TTL propagation for in-transit user IP packets

Context **configure** router *named-item-64* ttl-propagate sr-mpls-transit *keyword*

Tree sr-mpls-transit

Description This command configures TTL or hop-limit propagation for all segment routing MPLS tunnels carrying IPv4 or IPv6 packets. This applies to IPv4 and IPv6 packets of IGP, BGP unlabelled (except 6PE), and static routes in the base router whose next hop is resolved to a Segment Routing MPLS (SR-MPLS) tunnel of any of the following types: SR-ISIS, SR-OSPF, SR-OSPF3, SR-TE LSP, and SR policy.

This command enables or disables propagation of the TTL or hop-limit field value for transit IP packets to all labels in the segment routing transport label stack. Transit IP packets are packets of base router prefixes received on an access interface or a network interface (with or without tunnel encapsulation) and whose FIB lookup results in forwarding them over an SR-MPLS tunnel. Use the **sr-mpls-local** command to configure TTL or hop-limit propagation for CPM originated IP packets.

Options
none – Do not propagate TTL or hop-limit field value
all – Propagate TTL or hop-limit field value

Default all

Introduced 25.3.R2

Platforms SAR Gen 2

vprn-local *keyword*

Synopsis TTL propagation from IP header into label stack for VPRN local packets

Context **configure** router *named-item-64* ttl-propagate vprn-local *keyword*

Tree vprn-local

Options none, all, vc-only

Default vc-only

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Introduced	25.3.R2
Platforms	SAR Gen 2

vprn-transit *keyword*

Synopsis	TTL propagation from IP header into label stack for VPRN transit packets
Context	**configure** router *named-item-64* ttl-propagate vprn-transit *keyword*
Tree	vprn-transit
Options	none, all, vc-only
Default	vc-only
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-interface

Synopsis	Enter the **tunnel-interface** context
Context	**configure** router *named-item-64* tunnel-interface
Tree	tunnel-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-p2mp-leaf [p2mp-id] *number* sender-address *ipv4-unicast-address*

Synopsis	Enter the **ldp-p2mp-leaf** list instance
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-leaf *number* sender-address *ipv4-unicast-address*
Tree	ldp-p2mp-leaf
Introduced	25.3.R2
Platforms	SAR Gen 2

[**p2mp-id**] *number*

Synopsis	Identifier used for signaling MLDP P2MP LSP
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-leaf *number* sender-address *ipv4-unicast-address*
Tree	ldp-p2mp-leaf

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Max. range	0 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sender-address *ipv4-unicast-address*

Synopsis	Address of an LDP sender for the P2MP RSVP tunnel interface instance
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-leaf *number* sender-address *ipv4-unicast-address*
Tree	ldp-p2mp-leaf
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-leaf *number* sender-address *ipv4-unicast-address* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp-p2mp-root [p2mp-id] *number* sender-address *ipv4-unicast-address*

Synopsis	Enter the **ldp-p2mp-root** list instance
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-root *number* sender-address *ipv4-unicast-address*
Tree	ldp-p2mp-root
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**p2mp-id**] *number*

Synopsis	Identifier used for signaling MLDP P2MP LSP
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-root *number* sender-address *ipv4-unicast-address*
Tree	ldp-p2mp-root
Range	1 to 8192
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sender-address *ipv4-unicast-address*

Synopsis	Address of an LDP sender for the P2MP RSVP tunnel interface instance
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-root *number* sender-address *ipv4-unicast-address*
Tree	ldp-p2mp-root
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* tunnel-interface ldp-p2mp-root *number* sender-address *ipv4-unicast-address* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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twamp-light

Synopsis	Enter the **twamp-light** context
Context	**configure** router *named-item-64* twamp-light
Tree	twamp-light
Description	Commands in this context configure TWAMP Light parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

reflector

Synopsis	Enable the **reflector** context
Context	**configure** router *named-item-64* twamp-light reflector
Tree	reflector
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the TWAMP Light reflector
Context	**configure** router *named-item-64* twamp-light reflector admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ipv6-udp-checksum-zero *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Process IPv6 packets with a zero UDP checksum
Context	**configure** router *named-item-64* twamp-light reflector allow-ipv6-udp-checksum-zero *boolean*

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Tree	allow-ipv6-udp-checksum-zero
Description	When configured to **true**, the router processes IPv6 packets that arrive with a UDP checksum of zero. The destination UDP ports that are registered as TWAMP Test packets as part of this template allow this behavior. When configured to **false**, the router discards IPv6 packets that arrive with a UDP checksum of zero.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* twamp-light reflector description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **prefix** list instance
Context	**configure** router *named-item-64* twamp-light reflector prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Description	Commands in this context configure which TWAMP Light packet prefixes the reflector processes.
Max. instances	50
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Source prefix for the TWAMP-Light reflector
Context	**configure** router *named-item-64* twamp-light reflector prefix *(ipv4-prefix | ipv6-prefix)*

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Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** router *named-item-64* twamp-light reflector prefix *(ipv4-prefix | ipv6-prefix)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Processing behavior type for the reflector
Context	**configure** router *named-item-64* twamp-light reflector type *keyword*
Tree	type
Description	This command configures the processing behavior of the TWAMP Light reflector. When the value is **twamp-light** the reflector does not check the received PDU as a traditional base TWAMP Light packet without TLV processing. When the value is **stamp**, the reflector attempts to find and process supported STAMP TLVs that follow the base STAMP packet. In mixed environments where different types of Session-Senders may be targeting a common TWAMP Light reflector, set the value to **stamp**. When the reflector is operating in **stamp** mode, the primary parsing is based on STAMP, checking and processing known TLVs, or determining if the arriving PDU is a TWAMP Light PDU. A Session-Sender launching a TWAMP Light-based packet must use all zeros padding pattern when the pad size is non zero.
Options	stamp – Reflector finds and processes supported STAMP TLVs twamp-light – Reflector does not check received PDU
Default	twamp-light
Introduced	25.3.R2
Platforms	SAR Gen 2

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udp-port *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	UDP port on which the specified TWAMP-Light reflector listens for TWAMP PDUs
Context	**configure** router *named-item-64* twamp-light reflector udp-port *number*
Tree	udp-port
Range	862 | 64364 to 64373
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *keyword*

Synopsis	Weighted load-balancing capability for ECMP routes
Context	**configure** router *named-item-64* weighted-ecmp *keyword*
Tree	weighted-ecmp
Options	false, true, strict
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.25 routing-options commands

```
configure
   – routing-options
      – admin-tags
         – admin-tag string
         – route-admin-tag-policy string
            – apply-groups reference
            – apply-groups-exclude reference
            – exclude reference
            – include reference
      – apply-groups reference
      – apply-groups-exclude reference
      – flexible-algorithm-definitions
         – apply-groups reference
         – apply-groups-exclude reference
         – flex-algo named-item
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – description description
            – exclude
               – admin-group reference
            – flags-tlv boolean
            – include-all
               – admin-group reference
            – include-any
               – admin-group reference
            – metric-type keyword
            – priority number
      – if-attribute
         – admin-group named-item
            – apply-groups reference
            – apply-groups-exclude reference
            – value number
         – apply-groups reference
         – apply-groups-exclude reference
         – srlg-group named-item
            – apply-groups reference
            – apply-groups-exclude reference
            – penalty-weight number
            – value number
      – route-next-hop-policy
         – apply-groups reference
         – apply-groups-exclude reference
         – template named-item
            – apply-groups reference
            – apply-groups-exclude reference
            – description description
            – exclude-group reference
            – include-group reference
               – apply-groups reference
               – apply-groups-exclude reference
               – preference number
            – nh-type keyword
            – protection-type keyword
            – srlg boolean
```


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4.25.1 routing-options command descriptions

routing-options

Synopsis	Enter the **routing-options** context
Context	**configure** routing-options
Tree	routing-options
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tags

Synopsis	Enter the **admin-tags** context
Context	**configure** routing-options admin-tags
Tree	admin-tags
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-tag [tag] *string*

Synopsis	Add a list entry for **admin-tag**
Context	**configure** routing-options admin-tags admin-tag *string*
Tree	admin-tag
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tag**] *string*

Synopsis	Administrative tag value
Context	**configure** routing-options admin-tags admin-tag *string*
Tree	admin-tag
String length	1 to 32
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

route-admin-tag-policy [policy-name] *string*

Synopsis	Enter the **route-admin-tag-policy** list instance
Context	**configure** routing-options admin-tags route-admin-tag-policy *string*
Tree	route-admin-tag-policy
Max. instances	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *string*

Synopsis	Name of the route admin tag policy
Context	**configure** routing-options admin-tags route-admin-tag-policy *string*
Tree	route-admin-tag-policy
String length	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude [tag] *reference*

Synopsis	Add a list entry for **exclude**
Context	**configure** routing-options admin-tags route-admin-tag-policy *string* exclude *reference*
Tree	exclude
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tag**] *reference*

Synopsis	Administrative tag value

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Context	**configure** routing-options admin-tags route-admin-tag-policy *string* exclude *reference*
Tree	exclude
Reference	**configure** routing-options admin-tags admin-tag *string*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

include [tag] *reference*

Synopsis	Add a list entry for **include**
Context	**configure** routing-options admin-tags route-admin-tag-policy *string* include *reference*
Tree	include
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tag**] *reference*

Synopsis	Administrative tag value
Context	**configure** routing-options admin-tags route-admin-tag-policy *string* include *reference*
Tree	include
Reference	**configure** routing-options admin-tags admin-tag *string*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

flexible-algorithm-definitions

Synopsis	Enter the **flexible-algorithm-definitions** context
Context	**configure** routing-options flexible-algorithm-definitions
Tree	flexible-algorithm-definitions
Description	Commands in this context enable locally-configured algorithm definitions and configure administrative groups.
Introduced	25.3.R2

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Platforms	SAR Gen 2

flex-algo [flex-algo-name] *named-item*

Synopsis	Enter the **flex-algo** list instance
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item*
Tree	flex-algo
Description	Commands in this context configure the definition context for a Flexible Algorithm Definition (FAD).
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**flex-algo-name**] *named-item*

Synopsis	Flexible Algorithm Definition (FAD) name
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item*
Tree	flex-algo
Description	This command specifies the name of the flexible algorithm definition that is used as a reference anchor for the configuration.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the FAD
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **exclude** context
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* exclude
Tree	exclude
Description	Commands in this context define administrative groups that are used to exclude links from the Flexible Algorithm topology graph. Administrative groups, also known as link colors, are attributes associated with a link. The exclude rule that is part of the FAD specifies that links with the named administrative groups set are to be excluded from the topology graph.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group [group-name] *reference*

Synopsis	Add a list entry for **admin-group**
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* exclude admin-group *reference*
Tree	admin-group
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	Administrative group name
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* exclude admin-group *reference*
Tree	admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

flags-tlv *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Advertise the FAD Flags TLV
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* flags-tlv *boolean*
Tree	flags-tlv
Description	When configured to **true**, the router advertises the FAD Flags TLV within the FAD. The M-flag within the TLV is set to 1, specifying the use of a Flex-Algorithm specific prefix metric. A router receiving the TLV modifies the constrained SPF (cSPF) based on the M-flag status. When configured to **false**, the FAD Flags TLV is not included with the FAD advertisement.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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include-all

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **include-all** context
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* include-all
Tree	include-all
Description	Commands in this context define administrative groups that are used to include links from the Flexible Algorithm topology graph. Administrative groups, also known as link colors, are attributes associated with a link. The include-all rule that is part of the FAD specifies that all named administrative groups must be present in a link to be included in the topology graph.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group [group-name] *reference*

Synopsis	Add a list entry for **admin-group**
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* include-all admin-group *reference*
Tree	admin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	Administrative group name
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* include-all admin-group *reference*
Tree	admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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include-any

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **include-any** context
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* include-any
Tree	include-any
Description	Commands in this context define administrative groups that are used to include links from the Flexible Algorithm topology graph. Administrative groups, also known as link colors, are attributes associated with a link. The include-all rule that is part of the FAD specifies that any link with the named administrative groups is included in the topology graph.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group [group-name] *reference*

Synopsis	Add a list entry for **admin-group**
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* include-any admin-group *reference*
Tree	admin-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	Administrative group name
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* include-any admin-group *reference*
Tree	admin-group
Reference	**configure** routing-options if-attribute admin-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FAD metric type
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* metric-type *keyword*
Tree	metric-type
Options	igp, delay, te-metric
Default	igp
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FAD priority
Context	**configure** routing-options flexible-algorithm-definitions flex-algo *named-item* priority *number*
Tree	priority
Description	This command configures the priority of the FAD. The priority is used as a tie-breaker when the router has received multiple FADs for the same flexible algorithm.
Range	0 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

if-attribute

Synopsis	Enter the **if-attribute** context
Context	**configure** routing-options if-attribute
Tree	if-attribute

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group [group-name] *named-item*

Synopsis	Enter the **admin-group** list instance
Context	**configure** routing-options if-attribute admin-group *named-item*
Tree	admin-group
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *named-item*

Synopsis	Interface group name
Context	**configure** routing-options if-attribute admin-group *named-item*
Tree	admin-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Integer value associated with the group
Context	**configure** routing-options if-attribute admin-group *named-item* value *number*
Tree	value
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

srlg-group [name] *named-item*

Synopsis	Enter the **srlg-group** list instance
Context	**configure** routing-options if-attribute srlg-group *named-item*
Tree	srlg-group
Max. instances	1024
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	SRLG name
Context	**configure** routing-options if-attribute srlg-group *named-item*
Tree	srlg-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

penalty-weight *number*

Synopsis	Integer value of the penalty weight assigned to SRLG
Context	**configure** routing-options if-attribute srlg-group *named-item* penalty-weight *number*
Tree	penalty-weight
Description	This command specifies the penalty weight associated with a SRLG. The higher the penalty weight, the less desirable it is to use the link with a given SRLG.
Range	0 to 65535
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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value *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Integer value associated with the SRLG
Context	**configure** routing-options if-attribute srlg-group *named-item* value *number*
Tree	value
Range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-next-hop-policy

Synopsis	Enter the **route-next-hop-policy** context
Context	**configure** routing-options route-next-hop-policy
Tree	route-next-hop-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

template [template-name] *named-item*

Synopsis	Enter the **template** list instance
Context	**configure** routing-options route-next-hop-policy template *named-item*
Tree	template
Introduced	25.3.R2
Platforms	SAR Gen 2

[**template-name**] *named-item*

Synopsis	Template name
Context	**configure** routing-options route-next-hop-policy template *named-item*
Tree	template
String length	1 to 32

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String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** routing-options route-next-hop-policy template *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-group [group-name] *reference*

Synopsis	Add a list entry for **exclude-group**
Context	**configure** routing-options route-next-hop-policy template *named-item* exclude-group *reference*
Tree	exclude-group
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	Administrative group name
Context	**configure** routing-options route-next-hop-policy template *named-item* exclude-group *reference*
Tree	exclude-group
Description	This command specifies the name of the administrative group. If the same group name is part of both include and exclude statements, the exclude statement wins. In other words, the exclude statement can be viewed as having an implicit preference value of 0.

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Reference	**configure** routing-options if-attribute admin-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

include-group [group-name] *reference*

Synopsis	Enter the **include-group** list instance
Context	**configure** routing-options route-next-hop-policy template *named-item* include-group *reference*
Tree	include-group
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	Administrative group name
Context	**configure** routing-options route-next-hop-policy template *named-item* include-group *reference*
Tree	include-group
Description	This command specifies the name of the administrative group. If the same group name is part of both include and exclude statements, the exclude statement wins. In other words, the exclude statement can be viewed as having an implicit preference value of 0.
Reference	**configure** routing-options if-attribute admin-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Preference number for the admin group
Context	**configure** routing-options route-next-hop-policy template *named-item* include-group *reference* preference *number*

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Tree	preference
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

nh-type *keyword*

Synopsis	Preferred next hop
Context	**configure** routing-options route-next-hop-policy template *named-item* nh-type *keyword*
Tree	nh-type
Options	ip, tunnel
Default	ip
Introduced	25.3.R2
Platforms	SAR Gen 2

protection-type *keyword*

Synopsis	Protection type used
Context	**configure** routing-options route-next-hop-policy template *named-item* protection-type *keyword*
Tree	protection-type
Options	link, node
Default	node
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg *boolean*

Synopsis	Select next hops from the SRLG
Context	**configure** routing-options route-next-hop-policy template *named-item* srlg *boolean*
Tree	srlg
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.26 saa commands

```
configure
   – saa
      – apply-groups reference
      – apply-groups-exclude reference
      – owner named-item test named-item
         – accounting-policy reference
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – continuous boolean
         – description description
         – jitter-event keyword threshold-type keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – threshold number
         – latency-event keyword threshold-type keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – threshold number
         – loss-event keyword threshold-type keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – threshold number
         – probe-history keyword
         – type
            – eth-cfm-loopback
               – apply-groups reference
               – apply-groups-exclude reference
               – count number
               – destination (mac-unicast-address-no-zero | number)
               – interval number
               – ma-admin-name (named-item-64 | admin-name)
               – md-admin-name (named-item-64 | admin-name)
               – mep number
               – qos
                  – fc keyword
                  – profile keyword
               – size number
               – timeout number
               – trap-generation
                  – probe-fail boolean
                  – probe-fail-threshold number
                  – test-complete boolean
                  – test-fail boolean
                  – test-fail-threshold number
            – icmp-ping
               – apply-groups reference
               – apply-groups-exclude reference
               – bypass-routing boolean
               – count number
               – destination-address (ipv4-address-no-zone | ipv6-address-no-zone | string-
not-all-spaces)
               – do-not-fragment boolean
               – interface interface-name
               – interval (number | decimal-number)
               – next-hop-address (ipv4-address-no-zone | ipv6-address-no-zone)
               – pattern (keyword | number)
               – qos
                  – fc keyword
```


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configure saa owner type icmp-ping qos tos

```
                  - tos number
               - router-instance string
               - size number
               - source-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - timeout number
               - trap-generation
                  - probe-fail boolean
                  - probe-fail-threshold number
                  - test-complete boolean
                  - test-fail boolean
                  - test-fail-threshold number
               - ttl number
            - lsp-ping
               - apply-groups reference
               - apply-groups-exclude reference
               - interval number
               - qos
                  - fc keyword
                  - profile keyword
               - send-count number
               - size number
               - source-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - sub-type
                  - bgp-label
                     - path-destination
                        - interface interface-name
                        - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                        - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                     - prefix (ipv4-prefix | ipv6-prefix)
                  - ldp
                     - path-destination
                        - interface interface-name
                        - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                        - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                     - prefix (ipv4-prefix | ipv6-prefix)
                  - rsvp-te
                     - lsp-name named-item-64
                     - path named-item-64
                  - sr-isis
                     - igp-instance number
                     - path-destination
                        - interface interface-name
                        - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                        - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                     - prefix (ipv4-prefix | ipv6-prefix)
                  - sr-ospf
                     - igp-instance number
                     - path-destination
                        - interface interface-name
                        - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                        - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                     - prefix (ipv4-prefix | ipv6-prefix)
                  - sr-policy
                     - color number
                     - endpoint (ipv4-address-no-zone | ipv6-address-no-zone)
                     - path-destination
                        - interface interface-name
                        - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                        - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                     - segment-list number
                  - sr-te
                     - lsp-name named-item-64
                     - path named-item-64
                     - path-destination
```


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configure saa owner type lsp-ping sub-type sr-te path-destination interface

```
                        - interface interface-name
                        - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                        - next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                  - timeout number
                  - trap-generation
                     - probe-fail boolean
                     - probe-fail-threshold number
                     - test-complete boolean
                     - test-fail boolean
                     - test-fail-threshold number
                  - ttl number
               - sdp-ping
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - count number
                  - interval number
                  - originating-sdp-identifier number
                  - qos
                     - fc keyword
                     - profile keyword
                  - responder-sdp-identifier number
                  - size number
                  - timeout number
                  - trap-generation
                     - probe-fail boolean
                     - probe-fail-threshold number
                     - test-complete boolean
                     - test-fail boolean
                     - test-fail-threshold number
```


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4.26.1 saa command descriptions

saa

Synopsis	Enter the **saa** context
Context	**configure** saa
Tree	saa
Description	Commands in this context configure the Service Assurance Agent (SAA) tests.
Introduced	25.3.R2
Platforms	SAR Gen 2

owner [owner-name] *named-item* test *named-item*

Synopsis	Enter the **owner** list instance
Context	**configure** saa owner *named-item* test *named-item*
Tree	owner
Introduced	25.3.R2
Platforms	SAR Gen 2

[**owner-name**] *named-item*

Synopsis	Optional owner name of the SAA operation
Context	**configure** saa owner *named-item* test *named-item*
Tree	owner
Description	This command configures the owner associated with the SAA operation.
String length	1 to 32
MD-CLI default	TiMOS CLI
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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test *named-item*

Synopsis	SAA test name
Context	**configure** saa owner *named-item* test *named-item*
Tree	owner
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accounting policy associated with the SAA test
Context	**configure** saa owner *named-item* test *named-item* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SAA test
Context	**configure** saa owner *named-item* test *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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continuous *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Execute the SAA tests as continuous
Context	**configure** saa owner *named-item* test *named-item* continuous *boolean*
Tree	continuous
Description	When configured to **true**, the SAA test execution is continuous, that is, it cannot be started or stopped with the **oam saa test start** or **stop** commands. The SAA test types supported by this command include the following: • **cpe-ping** • **dns** • **eth-cfm-loopback** • **eth-cfm-two-way-delay** • **eth-cfm-two-way-slm** • **icmp-ping** (not applicable to **rapid** type) • **lsp-ping** • **mac-ping** • **sdp-ping** • **vccv-ping** • **vprn-ping**
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** saa owner *named-item* test *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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jitter-event [direction] *keyword* threshold-type *keyword*

Synopsis	Enter the **jitter-event** list instance
Context	**configure** saa owner *named-item* test *named-item* jitter-event *keyword* threshold-type *keyword*
Tree	jitter-event
Description	Commands in this context configure the jitter event thresholds used to evaluate the jitter event value at the termination of an SAA test probe. The system generates SAA threshold events as required.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Direction for OAM ping responses for OAM ping test run
Context	**configure** saa owner *named-item* test *named-item* jitter-event *keyword* threshold-type *keyword*
Tree	jitter-event
Options	inbound, outbound, round-trip
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold-type *keyword*

Synopsis	Threshold type
Context	**configure** saa owner *named-item* test *named-item* jitter-event *keyword* threshold-type *keyword*
Tree	jitter-event
Options	rising, falling
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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threshold *number*

Synopsis	Threshold jitter value
Context	**configure** saa owner *named-item* test *named-item* jitter-event *keyword* threshold-type *keyword* threshold *number*
Tree	threshold
Description	This command specifies the threshold jitter value. The system generates an SAA threshold event when the jitter value of the test run crosses the threshold value.
Range	0 to 2147483647
Units	microseconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

latency-event [direction] *keyword* threshold-type *keyword*

Synopsis	Enter the **latency-event** list instance
Context	**configure** saa owner *named-item* test *named-item* latency-event *keyword* threshold-type *keyword*
Tree	latency-event
Description	Commands in this context configure the latency event thresholds used to evaluate the latency event value at the termination of an SAA test probe. The system generates SAA threshold events as required.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**direction**] *keyword*

Synopsis	Direction for OAM ping responses for OAM ping test run
Context	**configure** saa owner *named-item* test *named-item* latency-event *keyword* threshold-type *keyword*
Tree	latency-event
Options	inbound, outbound, round-trip
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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threshold-type *keyword*

Synopsis	Threshold type
Context	**configure** saa owner *named-item* test *named-item* latency-event *keyword* threshold-type *keyword*
Tree	latency-event
Options	rising, falling
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold latency value
Context	**configure** saa owner *named-item* test *named-item* latency-event *keyword* threshold-type *keyword* threshold *number*
Tree	threshold
Description	This command specifies the threshold latency value. The system generates an SAA threshold event when the latency value of the test run crosses the threshold value.
Range	0 to 2147483647
Units	microseconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

loss-event [direction] *keyword* threshold-type *keyword*

Synopsis	Enter the **loss-event** list instance
Context	**configure** saa owner *named-item* test *named-item* loss-event *keyword* threshold-type *keyword*
Tree	loss-event
Description	Commands in this context configure the loss event thresholds used to evaluate the loss event value at the termination of an SAA test probe. The system generates SAA threshold events as required.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**direction**] *keyword*

Synopsis	Direction for OAM ping responses for OAM ping test run
Context	**configure** saa owner *named-item* test *named-item* loss-event *keyword* threshold-type *keyword*
Tree	loss-event
Options	inbound, outbound, round-trip
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold-type *keyword*

Synopsis	Threshold type
Context	**configure** saa owner *named-item* test *named-item* loss-event *keyword* threshold-type *keyword*
Tree	loss-event
Options	rising, falling
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold loss event value
Context	**configure** saa owner *named-item* test *named-item* loss-event *keyword* threshold-type *keyword* threshold *number*
Tree	threshold
Description	This command specifies the threshold loss value. The system generates an SAA threshold event when the loss value of the test run crosses the threshold value.
Range	0 to 2147483647
Units	packets
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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probe-history *keyword*

WARNING:
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Synopsis	History probe behavior
Context	**configure** saa owner *named-item* test *named-item* probe-history *keyword*
Tree	probe-history
Options	keep, drop, auto
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

type

Synopsis	Enter the **type** context
Context	**configure** saa owner *named-item* test *named-item* type
Tree	type
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm-loopback

Synopsis	Enable the **eth-cfm-loopback** context
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback
Tree	eth-cfm-loopback
Description	Commands in this context configure an Ethernet CFM loopback test in SAA.
Notes	The following elements are part of a choice: **dns**, **eth-cfm-loopback**, **icmp-ping**, **lsp-ping**, **sdp-ping**, or **vccv-ping**.
Introduced	25.10.R1
Platforms	SAR Gen 2

count *number*

Synopsis	Number of packets to send

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Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback count *number*
Tree	count
Range	1 to 100
Units	packets
Default	1
Introduced	25.10.R1
Platforms	SAR Gen 2

destination *(mac-unicast-address-no-zero | number)*

Synopsis	Destination MAC address or remote MEP ID of the peer
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback destination *(mac-unicast-address-no-zero | number)*
Tree	destination
Description	This command specifies the Layer 2 unicast MAC address of the destination MEP or, alternatively, the remote MEP ID. When the remote MEP ID option is used instead of the MAC address, the domain and association information of the source MEP for the test is used to check for a locally stored unicast MAC address for the peer. The local MEP must be administratively enabled.
Range	1 to 8191
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between packets sent
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	5
Introduced	25.10.R1
Platforms	SAR Gen 2

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ma-admin-name *(named-item-64 | admin-name)*

Synopsis	Source Ethernet Maintenance Association (MA) name
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback ma-admin-name *(named-item-64 | admin-name)*
Tree	ma-admin-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

md-admin-name *(named-item-64 | admin-name)*

Synopsis	Source Ethernet Maintenance Domain (MD) name
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback md-admin-name *(named-item-64 | admin-name)*
Tree	md-admin-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

mep *number*

Synopsis	Source Ethernet MEP ID
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback mep *number*
Tree	mep
Range	1 to 8191
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

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qos

Synopsis	Enter the **qos** context
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback qos
Tree	qos
Introduced	25.10.R1
Platforms	SAR Gen 2

fc *keyword*

Synopsis	FC for the sent echo request packets
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback qos fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	nc
Introduced	25.10.R1
Platforms	SAR Gen 2

profile *keyword*

Synopsis	QoS profile for the sent echo request packets
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback qos profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	in
Introduced	25.10.R1
Platforms	SAR Gen 2

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size *number*

Synopsis	Size of the value field in the sent frames
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback size *number*
Tree	size
Range	0 to 1500
Units	bytes
Default	0
Introduced	25.10.R1
Platforms	SAR Gen 2

timeout *number*

Synopsis	Maximum time to wait for a reply packet
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback timeout *number*
Tree	timeout
Description	This command configures the maximum time the router waits for a reply packet after sending the last probe for the test. When the timeout expires, the test is marked complete and no more packets are processed.
Range	1 to 10
Units	seconds
Default	5
Introduced	25.10.R1
Platforms	SAR Gen 2

trap-generation

Synopsis	Enter the **trap-generation** context
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback trap-generation
Tree	trap-generation
Introduced	25.10.R1
Platforms	SAR Gen 2

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probe-fail *boolean*

Synopsis	Enable the generation of probe fail notifications
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback trap-generation probe-fail *boolean*
Tree	probe-fail
Description	When configured to **true**, the system generates an SNMP trap if the consecutive probe failure threshold is reached during the execution of the SAA ping test. This command is not applicable to SAA traceroute tests.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

probe-fail-threshold *number*

Synopsis	Consecutive probe failure count
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback trap-generation probe-fail-threshold *number*
Tree	probe-fail-threshold
Description	This command configures the number of consecutive ping probe failures required to generate a trap. This command has no effect if the **probe-fail** command is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.10.R1
Platforms	SAR Gen 2

test-complete *boolean*

Synopsis	Enable generation of test complete notifications
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback trap-generation test-complete *boolean*
Tree	test-complete
Default	false
Introduced	25.10.R1

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Platforms	SAR Gen 2

test-fail *boolean*

Synopsis	Enable the generation of test fail notifications
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback trap-generation test-fail *boolean*
Tree	test-fail
Description	When configured to **true**, the system generates a trap if a test fails. In the case of a ping test, the test is considered to have failed (for trap generation) if the number of failed probes is at least the value of the **test-fail-threshold** setting.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

test-fail-threshold *number*

Synopsis	Total probe failures for trap generation
Context	**configure** saa owner *named-item* test *named-item* type eth-cfm-loopback trap-generation test-fail-threshold *number*
Tree	test-fail-threshold
Description	This command configures the number of consecutive test failures required to generate a trap. This command has no effect when **test-fail** is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.10.R1
Platforms	SAR Gen 2

icmp-ping

Synopsis	Enable the **icmp-ping** context
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping
Tree	icmp-ping
Description	Commands in this context configure an ICMP ping test.

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Notes	The following elements are part of a choice: **dns**, **eth-cfm-loopback**, **icmp-ping**, **lsp-ping**, **sdp-ping**, or **vccv-ping**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bypass-routing *boolean*

Synopsis	Bypass routing table for directly connected interfaces
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping bypass-routing *boolean*
Tree	bypass-routing
Default	false
Notes	The following elements are part of a choice: **bypass-routing**, **interface**, or **next-hop-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

count *number*

Synopsis	ICMP Echo Request packets to send in a sample window
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping count *number*
Tree	count
Range	1 to 100000
Units	packets
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-address *(ipv4-address-no-zone | ipv6-address-no-zone | string-not-all-spaces)*

Synopsis	Destination IP address or DNS name to send ping request
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping destination-address *(ipv4-address-no-zone | ipv6-address-no-zone | string-not-all-spaces)*
Tree	destination-address
String length	1 to 128

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String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

do-not-fragment *boolean*

Synopsis	Do not fragment echo request packets (valid for IPv4)
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping do-not-fragment *boolean*
Tree	do-not-fragment
Description	This command sets the Do Not Fragment (DF) bit in the IPv4 header. This prevents packet fragmentation along the path when there is an MTU mismatch.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Interface name
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a choice: **bypass-routing**, **interface**, or **next-hop-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *(number | decimal-number)*

Synopsis	Minimum time to expire before message request is sent
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping interval *(number | decimal-number)*
Tree	interval
Range	1 to 10000

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Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next-hop IP address to reach destination
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping next-hop-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop-address
Notes	The following elements are part of a choice: **bypass-routing**, **interface**, or **next-hop-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *(keyword | number)*

Synopsis	Pattern to fill the data portion in a ping packet
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping pattern *(keyword | number)*
Tree	pattern
Range	0 to 65535
Options	sequential
Default	sequential
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

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fc *keyword*

Synopsis	Forwarding class
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping qos fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	nc
Introduced	25.3.R2
Platforms	SAR Gen 2

tos *number*

Synopsis	Type of service
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping qos tos *number*
Tree	tos
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping router-instance *string*
Tree	router-instance
Default	Base
Introduced	25.3.R2
Platforms	SAR Gen 2

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size *number*

Synopsis	Packet padding size
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping size *number*
Tree	size
Description	This command configures the number of bytes in the combined ICMP Header (8 bytes) and ICMP Payload (variable size) of the ICMP Echo Request packets.
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-address
Description	This command configures the source IP address to be loaded into the IP header of the ICMP Echo Request packet. If unconfigured, the router uses a system-selected local address.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time router waits for a reply after sending last probe
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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trap-generation

Synopsis	Enter the **trap-generation** context
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping trap-generation
Tree	trap-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

probe-fail *boolean*

Synopsis	Enable the generation of probe fail notifications
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping trap-generation probe-fail *boolean*
Tree	probe-fail
Description	When configured to **true**, the system generates an SNMP trap if the consecutive probe failure threshold is reached during the execution of the SAA ping test. This command is not applicable to SAA traceroute tests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

probe-fail-threshold *number*

Synopsis	Consecutive probe failure count
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping trap-generation probe-fail-threshold *number*
Tree	probe-fail-threshold
Description	This command configures the number of consecutive ping probe failures required to generate a trap. This command has no effect if the **probe-fail** command is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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test-complete *boolean*

Synopsis	Enable generation of test complete notifications
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping trap-generation test-complete *boolean*
Tree	test-complete
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

test-fail *boolean*

Synopsis	Enable the generation of test fail notifications
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping trap-generation test-fail *boolean*
Tree	test-fail
Description	When configured to **true**, the system generates a trap if a test fails. In the case of a ping test, the test is considered to have failed (for trap generation) if the number of failed probes is at least the value of the **test-fail-threshold** setting.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

test-fail-threshold *number*

Synopsis	Total probe failures for trap generation
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping trap-generation test-fail-threshold *number*
Tree	test-fail-threshold
Description	This command configures the number of consecutive test failures required to generate a trap. This command has no effect when **test-fail** is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

ttl *number*

Synopsis	Time to live in the IP header
Context	**configure** saa owner *named-item* test *named-item* type icmp-ping ttl *number*
Tree	ttl
Range	1 to 128
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-ping

Synopsis	Enable the **lsp-ping** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping
Tree	lsp-ping
Description	Commands in this context configure the command options to perform in-band LSP connectivity tests. LSP ping uses the protocol and data structures defined in RFC 8029, *Detecting Multiprotocol Label Switched (MPLS) Data-Plane Failures*.
Notes	The following elements are part of a choice: **dns**, **eth-cfm-loopback**, **icmp-ping**, **lsp-ping**, **sdp-ping**, or **vccv-ping**.
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Minimum time before the next lsp-ping request is sent
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Forwarding class
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping qos fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	Profile
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping qos profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	SAR Gen 2

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send-count *number*

Synopsis	Number of request packets to send in a sample window
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping send-count *number*
Tree	send-count
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

size *number*

Synopsis	Packet pad size
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping size *number*
Tree	size
Range	1 to 9786
Units	bytes
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping source-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	source-ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

sub-type

Synopsis	Enter the **sub-type** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type

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Tree	sub-type
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-label

Synopsis	Enable the **bgp-label** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type bgp-label
Tree	bgp-label
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

path-destination

Synopsis	Enter the **path-destination** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type bgp-label path-destination
Tree	path-destination
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Egress router interface used with the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type bgp-label path-destination interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type bgp-label path-destination ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address used with path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type bgp-label path-destination next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type bgp-label prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp

Synopsis	Enable the **ldp** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type ldp
Tree	ldp
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

path-destination

Synopsis	Enter the **path-destination** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type ldp path-destination
Tree	path-destination
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Egress router interface used with the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type ldp path-destination interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type ldp path-destination ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address used with path destination

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Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type ldp path-destination next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type ldp prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp-te

Synopsis	Enable the **rsvp-te** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type rsvp-te
Tree	rsvp-te
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-name *named-item-64*

Synopsis	Name of the LSP to be tested
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type rsvp-te lsp-name *named-item-64*
Tree	lsp-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

path *named-item-64*

Synopsis	Name of the MPLS path to be tested
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type rsvp-te path *named-item-64*
Tree	path
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis

Synopsis	Enable the **sr-isis** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis
Tree	sr-isis
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR IS-IS test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis igp-instance *number*
Tree	igp-instance
Range	0 to 127
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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path-destination

Synopsis	Enter the **path-destination** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis path-destination
Tree	path-destination
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Egress router interface used with the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis path-destination interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis path-destination ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address used with path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis path-destination next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-isis prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf

Synopsis	Enable the **sr-ospf** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf
Tree	sr-ospf
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-instance *number*

Synopsis	IGP instance for the SR OSPF test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf igp-instance *number*
Tree	igp-instance
Range	0 to 31
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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path-destination

Synopsis	Enter the **path-destination** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf path-destination
Tree	path-destination
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Egress router interface used with the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf path-destination interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf path-destination ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address used with path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf path-destination next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

prefix *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP prefix for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-ospf prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy

Synopsis	Enable the **sr-policy** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy
Tree	sr-policy
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

color *number*

Synopsis	Segment Routing color for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy color *number*
Tree	color
Range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Segment Routing endpoint for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy endpoint *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	endpoint
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

path-destination

Synopsis	Enter the **path-destination** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy path-destination
Tree	path-destination
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Egress router interface used with the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy path-destination interface *interface-name*
Tree	interface
String length	1 to 32
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy path-destination ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address

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Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address used with path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy path-destination next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-list *number*

Synopsis	Segment Routing segment list for the test
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-policy segment-list *number*
Tree	segment-list
Range	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te

Synopsis	Enable the **sr-te** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te
Tree	sr-te
Notes	The following elements are part of a choice: **bgp-label**, **ldp**, **rsvp-te**, **sr-isis**, **sr-ospf**, **sr-ospf3**, **sr-policy**, or **sr-te**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-name *named-item-64*

Synopsis	Name of the LSP to be tested

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Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te lsp-name *named-item-64*
Tree	lsp-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

path *named-item-64*

Synopsis	Name of the MPLS path to be tested
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te path *named-item-64*
Tree	path
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

path-destination

Synopsis	Enter the **path-destination** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te path-destination
Tree	path-destination
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

Synopsis	Egress router interface used with the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te path-destination interface *interface-name*
Tree	interface
String length	1 to 32

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Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te path-destination ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Egress IP next hop address used with path destination
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping sub-type sr-te path-destination next-hop *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	next-hop
Notes	The following elements are part of a choice: **interface** or **next-hop**.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time router waits for a reply to an echo request
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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trap-generation

Synopsis	Enter the **trap-generation** context
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping trap-generation
Tree	trap-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

probe-fail *boolean*

Synopsis	Enable the generation of probe fail notifications
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping trap-generation probe-fail *boolean*
Tree	probe-fail
Description	When configured to **true**, the system generates an SNMP trap if the consecutive probe failure threshold is reached during the execution of the SAA ping test. This command is not applicable to SAA traceroute tests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

probe-fail-threshold *number*

Synopsis	Consecutive probe failure count
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping trap-generation probe-fail-threshold *number*
Tree	probe-fail-threshold
Description	This command configures the number of consecutive ping probe failures required to generate a trap. This command has no effect if the **probe-fail** command is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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test-complete *boolean*

Synopsis	Enable generation of test complete notifications
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping trap-generation test-complete *boolean*
Tree	test-complete
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

test-fail *boolean*

Synopsis	Enable the generation of test fail notifications
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping trap-generation test-fail *boolean*
Tree	test-fail
Description	When configured to **true**, the system generates a trap if a test fails. In the case of a ping test, the test is considered to have failed (for trap generation) if the number of failed probes is at least the value of the **test-fail-threshold** setting.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

test-fail-threshold *number*

Synopsis	Total probe failures for trap generation
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping trap-generation test-fail-threshold *number*
Tree	test-fail-threshold
Description	This command configures the number of consecutive test failures required to generate a trap. This command has no effect when **test-fail** is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

ttl *number*

Synopsis	TTL value for the echo request MPLS label
Context	**configure** saa owner *named-item* test *named-item* type lsp-ping ttl *number*
Tree	ttl
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-ping

Synopsis	Enable the **sdp-ping** context
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping
Tree	sdp-ping
Description	Commands in this context configure tests on SDPs for unidirectional or round-trip connectivity, as well as for performing SDP MTU path tests.
Notes	The following elements are part of a choice: **dns**, **eth-cfm-loopback**, **icmp-ping**, **lsp-ping**, **sdp-ping**, or **vccv-ping**.
Introduced	25.3.R2
Platforms	SAR Gen 2

count *number*

Synopsis	Number of SDP echo request packets to send
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping count *number*
Tree	count
Description	This command specifies the number of echo request packets to send. Each request must either time out or receive a reply before the next message request is sent. The **interval** value must expire before the next message request is sent.
Range	1 to 100
Units	packets
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between SDP echo request packets sent
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping interval *number*
Tree	interval
Range	1 to 10
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

originating-sdp-identifier *number*

Synopsis	SDP ID used to send packets
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping originating-sdp-identifier *number*
Tree	originating-sdp-identifier
Description	This command specifies the SDP ID that is used by SDP ping. The far-end address of the specified SDP ID is the expected responder ID within each reply received. The SDP ID defines the SDP tunnel encapsulation used to reach the far end. This can be IP/GRE or MPLS. If this ID is invalid, administratively down, or otherwise unavailable, the SDP echo request message is not sent, and an error message is displayed. After the interval timer expires, the SDP ping attempts to send the next request, if required.
Range	1 to 32767
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping qos
Tree	qos
Introduced	25.3.R2

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Platforms	SAR Gen 2

fc *keyword*

Synopsis	FC for the transmitted SDP echo request packets
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping qos fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Default	be
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *keyword*

Synopsis	QoS profile for transmitted SDP echo request packets
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping qos profile *keyword*
Tree	profile
Options	in – In profile out – Out of profile
Default	out
Introduced	25.3.R2
Platforms	SAR Gen 2

responder-sdp-identifier *number*

Synopsis	SDP ID used by the far-end to reply to the request
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping responder-sdp-identifier *number*
Tree	responder-sdp-identifier
Description	This command configures the return SDP ID to be used by the far-end router for the message reply for round-trip SDP connectivity testing.

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If this ID does not exist on the far-end router, or terminates on a different router from the originating router, or another issue prevents the far-end router from using this ID, the SDP echo reply is sent using generic IP or GRE OAM encapsulation. The received FC (as mapped on the ingress network interface for the far end) defines the FC encapsulation for the reply message.

Range	1 to 32767
Introduced	25.3.R2
Platforms	SAR Gen 2

size *number*

Synopsis	Size of the SDP echo request packets
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping size *number*
Tree	size
Description	This command configures the size of the SDP echo request packets, which includes the SDP header and payload. The size does not include the SDP encapsulation, VC label (if applied), or any DLC headers or trailers.
Range	72 to 9786
Units	bytes
Default	72
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Maximum time to wait for SDP echo reply packets
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping timeout *number*
Tree	timeout
Description	This command configures the time the router waits for a message reply after sending the last probe for a specific test. When the timeout expires, the test is marked complete and no more packets are processed.
Range	1 to 10
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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trap-generation

Synopsis	Enter the **trap-generation** context
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping trap-generation
Tree	trap-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

probe-fail *boolean*

Synopsis	Enable the generation of probe fail notifications
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping trap-generation probe-fail *boolean*
Tree	probe-fail
Description	When configured to **true**, the system generates an SNMP trap if the consecutive probe failure threshold is reached during the execution of the SAA ping test. This command is not applicable to SAA traceroute tests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

probe-fail-threshold *number*

Synopsis	Consecutive probe failure count
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping trap-generation probe-fail-threshold *number*
Tree	probe-fail-threshold
Description	This command configures the number of consecutive ping probe failures required to generate a trap. This command has no effect if the **probe-fail** command is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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test-complete *boolean*

Synopsis	Enable generation of test complete notifications
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping trap-generation test-complete *boolean*
Tree	test-complete
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

test-fail *boolean*

Synopsis	Enable the generation of test fail notifications
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping trap-generation test-fail *boolean*
Tree	test-fail
Description	When configured to **true**, the system generates a trap if a test fails. In the case of a ping test, the test is considered to have failed (for trap generation) if the number of failed probes is at least the value of the **test-fail-threshold** setting.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

test-fail-threshold *number*

Synopsis	Total probe failures for trap generation
Context	**configure** saa owner *named-item* test *named-item* type sdp-ping trap-generation test-fail-threshold *number*
Tree	test-fail-threshold
Description	This command configures the number of consecutive test failures required to generate a trap. This command has no effect when **test-fail** is set to **false**. This command is not applicable to SAA traceroute tests.
Range	0 to 15
Default	1
Introduced	25.3.R2

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Platforms SAR Gen 2

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4.27 service commands

```
configure
   – service
      – apply-groups reference
      – apply-groups-exclude reference
      – cpipe service-name
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – customer reference
         – description description
         – endpoint named-item
            – active-multipath boolean
            – active-multipath-timeout number
            – apply-groups reference
            – apply-groups-exclude reference
            – description description
            – hold-time-active number
            – revert-time (number | keyword)
            – standby-signaling keyword
         – network-latency-measurement boolean
         – sap sap
            – accounting-policy reference
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – cem
               – asym-delay-control
                  – min-repeat number
                  – samples number
                  – threshold-repeat number
               – packet
                  – jitter-buffer number
                  – payload-size number
               – report-alarm
                  – buffer-overrun boolean
                  – buffer-underrun boolean
                  – malformed-packets boolean
                  – packet-loss boolean
                  – remote-fault boolean
                  – remote-packet-loss boolean
                  – remote-rdi boolean
                  – stray-packets boolean
            – collect-stats boolean
            – description long-description
            – endpoint reference
            – ingress
               – qos
                  – sap-ingress
                     – overrides
                     – policy-name reference
            – lag
         – service-id number
         – service-mtu number
         – spoke-sdp sdp-bind-id
            – admin-state keyword
            – apply-groups reference
            – apply-groups-exclude reference
            – bandwidth (number | keyword)
            – control-word boolean
```


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configure service cpipe spoke-sdp description

```
            - description description
            - egress
               - qos
                  - network
                     - policy-name reference
                     - port-redirect-group
                        - group-name reference
                        - instance number
               - vc-label number
            - endpoint
               - name reference
               - precedence (number | keyword)
            - ingress
               - qos
                  - network
                     - fp-redirect-group
                        - group-name reference
                        - instance number
                     - policy-name reference
               - vc-label number
         - test boolean
         - vc-type keyword
      - customer customer-name
         - apply-groups reference
         - apply-groups-exclude reference
         - contact description
         - customer-id number
         - description description
         - multi-service-site named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - assignment
               - card number
               - port port-named
            - description description
            - egress
               - agg-rate
                  - limit-unused-bandwidth boolean
                  - queue-frame-based-accounting boolean
                  - rate number
               - policer-control-policy reference
               - scheduler-policy
                  - overrides
                     - scheduler named-item
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
            - ingress
               - policer-control-policy reference
               - scheduler-policy
                  - overrides
                     - scheduler named-item
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
```


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configure service customer multi-service-site ingress scheduler-policy overrides scheduler rate cir

```
                        - cir (number | keyword)
                        - pir (number | keyword)
                - policy-name reference
        - phone description
    - epipe service-name
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - bgp number
            - adv-service-mtu number
            - apply-groups reference
            - apply-groups-exclude reference
            - pw-template-binding reference
                - apply-groups reference
                - apply-groups-exclude reference
                - endpoint reference
                - import-rt route-target
            - route-distinguisher (keyword | vpn-route-distinguisher)
            - route-target
                - export route-target
                - import route-target
            - vsi-export reference
            - vsi-import reference
        - bgp-evpn
            - apply-groups reference
            - apply-groups-exclude reference
            - evi number
            - ignore-mtu-mismatch boolean
            - local-attachment-circuit named-item
                - apply-groups reference
                - apply-groups-exclude reference
                - bgp number
                - endpoint reference
                - eth-tag number
            - mpls number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - auto-bind-tunnel
                    - allow-flex-algo-fallback boolean
                    - ecmp number
                    - enforce-strict-tunnel-tagging boolean
                    - enforce-untagged-route keyword
                    - resolution keyword
                    - resolution-filter
                        - bgp boolean
                        - ldp boolean
                        - rsvp boolean
                        - sr-isis boolean
                        - sr-ospf boolean
                        - sr-ospf3 boolean
                        - sr-policy boolean
                        - sr-te boolean
                    - weighted-ecmp boolean
                - control-word boolean
                - default-route-tag one-byte-value
                - domain-id domain-id
                - dynamic-egress-label-limit boolean
                - entropy-label boolean
                - evi-three-byte-auto-rt boolean
                - force-vc-forwarding keyword
                - mh-mode keyword
                - oper-group reference
                - route-next-hop
```


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configure service epipe bgp-evpn mpls route-next-hop ip-address

```
                  - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - system-ipv4
                  - system-ipv6
               - send-tunnel-encap
                  - mpls boolean
            - remote-attachment-circuit named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - bgp number
               - endpoint reference
               - eth-tag number
         - bgp-mh-site named-item
            - activation-timer number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - boot-timer number
            - id number
            - min-down-timer number
            - preference number
            - sap sap
         - bgp-vpws
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - local-ve
               - id number
               - name named-item
            - remote-ve named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - id number
         - customer reference
         - description description
         - endpoint named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - hold-time-active number
            - revert-time (number | keyword)
            - standby-signaling keyword
         - ignore-l2vpn-mtu-mismatch boolean
         - load-balancing
         - oper-group reference
         - sap sap
            - accounting-policy reference
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - bandwidth number
            - collect-stats boolean
            - description long-description
            - dist-cpu-protection reference
            - egress
               - agg-rate
                  - queue-frame-based-accounting boolean
                  - rate number
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - policer-control-policy
                     - overrides
                        - apply-groups reference
```


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configure service epipe sap egress qos policer-control-policy overrides apply-groups-exclude

```
                        - apply-groups-exclude reference
                        - root
                           - max-rate (number | keyword)
                           - priority-mbs-thresholds
                              - min-thresh-separation (number | keyword)
                              - priority number
                                 - apply-groups reference
                                 - apply-groups-exclude reference
                                 - mbs-contribution (number | keyword)
                     - policy-name reference
                  - sap-egress
                     - overrides
                        - policer reference
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - cbs (number | keyword)
                           - mbs (number | keyword)
                           - packet-byte-offset number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                           - stat-mode keyword
                        - queue reference
                           - adaptation-rule
                              - cir keyword
                              - pir keyword
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - avg-frame-overhead decimal-number
                           - cbs (number | keyword)
                           - drop-tail
                              - low
                                 - percent-reduction-from-mbs (number | keyword)
                           - mbs (number | keyword)
                           - parent
                              - cir-weight number
                              - weight number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                     - policy-name reference
                     - port-redirect-group
                        - group-name reference
                        - instance number
                  - scheduler-policy
                     - overrides
                        - scheduler named-item
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - parent
                              - cir-weight number
                              - weight number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                     - policy-name reference
               - endpoint reference
               - eth-cfm
```


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configure service epipe sap eth-cfm apply-groups

```
            - apply-groups reference
            - apply-groups-exclude reference
            - mep md-admin-name reference ma-admin-name reference mep-id number
               - admin-state keyword
               - ais
                  - client-meg-level number
                  - interface-support boolean
                  - interval number
                  - low-priority-defect keyword
                  - priority number
               - alarm-notification
                  - fng-alarm-time number
                  - fng-reset-time number
               - apply-groups reference
               - apply-groups-exclude reference
               - ccm boolean
               - ccm-ltm-priority number
               - description description
               - direction keyword
               - eth-test
                  - bit-error-threshold number
                  - test-pattern
                     - crc-tlv boolean
                     - pattern keyword
               - fault-propagation keyword
               - low-priority-defect keyword
               - mac-address mac-unicast-address-no-zero
               - one-way-delay-threshold number
         - ethernet
            - llf
               - admin-state keyword
         - ignore-oper-down boolean
         - ingress
            - filter
               - ip reference
               - ipv6 reference
            - qos
               - policer-control-policy
                  - overrides
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - root
                        - max-rate (number | keyword)
                        - priority-mbs-thresholds
                           - min-thresh-separation (number | keyword)
                           - priority number
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - mbs-contribution (number | keyword)
                  - policy-name reference
               - sap-ingress
                  - fp-redirect-group
                     - group-name reference
                     - instance number
                  - overrides
                     - policer reference
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - mbs (number | keyword)
                        - packet-byte-offset number
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
```


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configure service epipe sap ingress qos sap-ingress overrides policer rate

```
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                        - stat-mode keyword
                     - queue reference
                        - adaptation-rule
                           - cir keyword
                           - pir keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - drop-tail
                           - low
                              - percent-reduction-from-mbs (number | keyword)
                        - mbs (number | keyword)
                        - parent
                           - cir-weight number
                           - weight number
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
               - scheduler-policy
                  - overrides
                     - scheduler named-item
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
            - qtag-manipulation
               - c-tag (number | keyword)
               - push-dot1q-vlan (number | keyword)
               - s-tag number
         - lag
         - mc-ring
            - apply-groups reference
            - apply-groups-exclude reference
            - ring-node named-item
         - monitor-oper-group reference
         - multi-service-site reference
         - oper-group reference
      - service-id number
      - service-mtu number
      - spoke-sdp sdp-bind-id
         - accounting-policy reference
         - admin-state keyword
         - adv-service-mtu number
         - apply-groups reference
         - apply-groups-exclude reference
         - bandwidth (number | keyword)
         - collect-stats boolean
         - control-word boolean
         - description description
         - egress
            - filter
               - ip reference
```


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```
                  - ipv6 reference
               - qos
                  - network
                     - policy-name reference
                     - port-redirect-group
                        - group-name reference
                        - instance number
               - vc-label number
            - endpoint
               - icb boolean
               - name reference
               - precedence (number | keyword)
            - entropy-label
            - eth-cfm
               - apply-groups reference
               - apply-groups-exclude reference
               - mep md-admin-name reference ma-admin-name reference mep-id number
                  - admin-state keyword
                  - ais
                     - client-meg-level number
                     - interface-support boolean
                     - interval number
                     - low-priority-defect keyword
                     - priority number
                  - alarm-notification
                     - fng-alarm-time number
                     - fng-reset-time number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ccm boolean
                  - ccm-ltm-priority number
                  - description description
                  - direction keyword
                  - eth-test
                     - bit-error-threshold number
                     - test-pattern
                        - crc-tlv boolean
                        - pattern keyword
                  - fault-propagation keyword
                  - low-priority-defect keyword
                  - mac-address mac-unicast-address-no-zero
                  - one-way-delay-threshold number
            - force-vc-forwarding keyword
            - hash-label
               - signal-capability
            - ingress
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - network
                     - fp-redirect-group
                        - group-name reference
                        - instance number
                     - policy-name reference
               - vc-label number
            - monitor-oper-group reference
            - oper-group reference
            - pw-status
               - block-on-peer-fault boolean
               - signaling boolean
               - standby-signaling-slave boolean
            - vc-type keyword
            - vlan-vc-tag number
```


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```
        - test boolean
        - vc-switching boolean
        - vpn-id number
     - ies service-name
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - customer reference
        - description description
        - interface interface-name
           - admin-state keyword
           - apply-groups reference
           - apply-groups-exclude reference
           - autoconfigure
              - ipv4
                 - dhcp-client
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - class-id
                       - ascii-string string
                       - hex-string hex-string
                    - client-id
                       - ascii-string string
                       - hex-string hex-string
                       - interface
                       - mac
                    - lease-time (number | keyword)
                    - request-options
                       - dns-server boolean
                       - router boolean
                       - static-route boolean
           - description very-long-description
           - dynamic-tunnel-redundant-nexthop ipv4-unicast-address
           - hold-time
              - ipv4
                 - down
                    - init-only boolean
                    - seconds number
                 - up
                    - seconds number
              - ipv6
                 - down
                    - init-only boolean
                    - seconds number
                 - up
                    - seconds number
           - if-attribute
              - admin-group reference
              - srlg-group reference
           - ingress
           - ip-mtu number
           - ip-tunnel-interface boolean
           - ipsec
              - admin-state keyword
              - apply-groups reference
              - apply-groups-exclude reference
              - ip-exception reference
              - ipsec-tunnel named-item
                 - admin-state keyword
                 - apply-groups reference
                 - apply-groups-exclude reference
                 - bfd
                    - bfd-designate boolean
```


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configure service ies interface ipsec ipsec-tunnel bfd bfd-liveness

```
                        - bfd-liveness
                           - dest-ip ipv4-unicast-address
                           - interface interface-name
                           - service-name service-name
                     - clear-df-bit boolean
                     - copy-traffic-class-upon-decapsulation boolean
                     - description description
                     - encapsulated-ip-mtu number
                     - icmp-generation
                        - frag-required
                           - admin-state keyword
                           - interval number
                           - message-count number
                     - icmp6-generation
                        - packet-too-big
                           - admin-state keyword
                           - interval number
                           - message-count number
                     - ip-mtu number
                     - key-exchange
                        - dynamic
                           - auto-establish boolean
                           - auto-establish-sustain boolean
                           - cert
                              - cert-profile reference
                              - status-verify
                                 - default-result keyword
                                 - primary keyword
                                 - secondary keyword
                              - trust-anchor-profile reference
                           - id
                              - fqdn fully-qualified-domain-name
                              - ipv4 ipv4-unicast-address
                              - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                           - ike-policy reference
                           - ipsec-transform reference
                           - ppk
                              - id reference
                              - list reference
                           - pre-shared-key encrypted-leaf
                           - reverse-route-injection
                              - metric number
                              - preference number
                        - manual
                           - keys number direction keyword
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - authentication-key hex-string
                              - encryption-key hex-string
                              - ipsec-transform reference
                              - spi number
                     - local-gateway-address-override (ipv4-address-no-zone | ipv6-address-no-
zone)
                     - max-history-key-records
                        - esp number
                        - ike number
                     - pmtu-discovery-aging number
                     - private-sap number
                     - private-service service-name
                     - private-tcp-mss-adjust number
                     - propagate-pmtu-v4 boolean
                     - propagate-pmtu-v6 boolean
                     - public-tcp-mss-adjust (number | keyword)
                     - remote-gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
```


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configure service ies interface ipsec ipsec-tunnel replay-window

```
                  - replay-window number
                  - security-policy
                     - id number
                     - strict-match boolean
               - ipv6-exception reference
               - public-sap number
               - tunnel-group reference
            - ipv4
               - addresses
                  - address ipv4-unicast-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - prefix-length number
               - allow-directed-broadcasts boolean
               - bfd
                  - admin-state keyword
                  - echo-receive number
                  - multiplier number
                  - receive number
                  - transmit-interval number
               - dhcp
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - gi-address ipv4-unicast-address
                  - lease-populate
                     - max-leases number
                  - option-82
                     - action keyword
                     - circuit-id
                        - ascii-tuple
                        - ifindex
                        - none
                        - sap-id
                        - vlan-ascii-tuple
                     - remote-id
                        - ascii-string string-not-all-spaces
                        - mac
                        - none
                     - vendor-specific-option
                        - client-mac-address boolean
                        - pool-name boolean
                        - sap-id boolean
                        - service-id boolean
                        - string string-not-all-spaces
                        - system-id boolean
                  - proxy-server
                     - admin-state keyword
                     - emulated-server ipv4-unicast-address
                     - lease-time
                        - radius-override boolean
                        - value number
                  - relay-plain-bootp boolean
                  - relay-proxy
                     - release-update-src-ip boolean
                     - siaddr-override ipv4-unicast-address
                  - server ipv4-unicast-address
                  - src-ip-addr keyword
                  - trusted boolean
                  - use-arp boolean
               - icmp
                  - mask-reply boolean
                  - param-problem
```


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```
                  - admin-state keyword
                  - number number
                  - seconds number
               - redirects
                  - admin-state keyword
                  - number number
                  - seconds number
               - ttl-expired
                  - admin-state keyword
                  - number number
                  - seconds number
               - unreachables
                  - admin-state keyword
                  - number number
                  - seconds number
            - ip-helper-address ipv4-unicast-address
            - local-dhcp-server reference
            - nat
               - apply-groups reference
               - apply-groups-exclude reference
               - cpm-nat-policy reference
               - cpm-spf-nat-policy reference
            - neighbor-discovery
               - host-route
                  - populate keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - route-tag number
               - learn-unsolicited boolean
               - limit
                  - log-only boolean
                  - max-entries number
                  - threshold number
               - local-proxy-arp boolean
               - populate boolean
               - proactive-refresh boolean
               - proxy-arp-policy reference
               - remote-proxy-arp boolean
               - retry-timer number
               - static-neighbor ipv4-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac-address mac-address
               - static-neighbor-unnumbered
                  - mac-address mac-address
               - timeout number
            - primary
               - address ipv4-unicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - broadcast keyword
               - prefix-length number
               - tag (number | keyword)
            - secondary ipv4-unicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - broadcast keyword
               - igp-inhibit boolean
               - prefix-length number
               - tag (number | keyword)
            - tcp-mss number
            - unnumbered
               - ip-address ipv4-unicast-address
               - ip-int-name interface-name
```


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configure service ies interface ipv4 unnumbered system

```
                  - system
               - urpf-check
                  - ignore-default boolean
                  - mode keyword
               - vrrp number
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication-key encrypted-leaf
                  - backup ipv4-unicast-address
                  - bfd-liveness
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - dest-ip ipv4-address
                     - interface-name interface-name
                     - service-name service-name
                  - init-delay number
                  - mac mac-unicast-address
                  - master-int-inherit boolean
                  - message-interval number
                  - monitor-oper-group reference
                  - ntp-reply boolean
                  - oper-group reference
                  - owner boolean
                  - passive boolean
                  - ping-reply boolean
                  - policy reference
                  - preempt boolean
                  - priority number
                  - ssh-reply boolean
                  - standby-forwarding boolean
                  - telnet-reply boolean
                  - traceroute-reply boolean
            - ipv6
               - address ipv6-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - duplicate-address-detection boolean
                  - eui-64 boolean
                  - prefix-length number
                  - primary-preference number
                  - tag (number | keyword)
               - bfd
                  - admin-state keyword
                  - echo-receive number
                  - multiplier number
                  - receive number
                  - transmit-interval number
               - dhcp6
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - relay
                     - admin-state keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - description description
                     - lease-populate
                        - max-nbr-of-leases number
                        - route-populate
                           - na boolean
                           - pd
                              - exclude boolean
                           - ta boolean
                     - option
```


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configure service ies interface ipv6 dhcp6 relay option apply-groups

```
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - interface-id
                           - ascii-tuple
                           - if-index
                           - sap-id
                           - string string-not-all-spaces
                        - remote-id boolean
                     - server ipv6-address-with-zone
                     - source-address ipv6-unicast-or-linklocal-address
               - duplicate-address-detection boolean
               - forward-ipv4-packets boolean
               - icmp6
                  - packet-too-big
                     - admin-state keyword
                     - number number
                     - seconds number
                  - param-problem
                     - admin-state keyword
                     - number number
                     - seconds number
                  - redirects
                     - admin-state keyword
                     - number number
                     - seconds number
                  - time-exceeded
                     - admin-state keyword
                     - number number
                     - seconds number
                  - unreachables
                     - admin-state keyword
                     - number number
                     - seconds number
               - link-local-address
                  - address ipv6-address
                  - duplicate-address-detection boolean
               - local-dhcp-server reference
               - neighbor-discovery
                  - host-route
                     - populate keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - route-tag number
                  - learn-unsolicited keyword
                  - limit
                     - log-only boolean
                     - max-entries number
                     - threshold number
                  - local-proxy-nd boolean
                  - proactive-refresh keyword
                  - proxy-nd-policy reference
                  - reachable-time number
                  - stale-time number
                  - static-neighbor ipv6-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - mac-address mac-address
               - tcp-mss number
               - urpf-check
                  - ignore-default boolean
                  - mode keyword
               - vrrp number
                  - admin-state keyword
                  - apply-groups reference
```


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configure service ies interface ipv6 vrrp apply-groups-exclude

```
                - apply-groups-exclude reference
                - backup ipv6-address
                - bfd-liveness
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - interface-name interface-name
                  - service-name service-name
                - init-delay number
                - mac mac-unicast-address
                - master-int-inherit boolean
                - message-interval number
                - monitor-oper-group reference
                - ntp-reply boolean
                - oper-group reference
                - owner boolean
                - passive boolean
                - ping-reply boolean
                - policy reference
                - preempt boolean
                - priority number
                - standby-forwarding boolean
                - telnet-reply boolean
                - traceroute-reply boolean
            - load-balancing
              - ip-load-balancing keyword
            - loopback boolean
            - mac mac-unicast-address
            - mac-accounting boolean
            - monitor-oper-group reference
            - multi-chassis-shunting-profile reference
            - multicast-network-domain reference
            - ptp-hw-assist
              - admin-state keyword
              - apply-groups reference
              - apply-groups-exclude reference
            - sap sap
              - accounting-policy reference
              - admin-state keyword
              - apply-groups reference
              - apply-groups-exclude reference
              - bandwidth number
              - collect-stats boolean
              - description long-description
              - dist-cpu-protection reference
              - egress
                - agg-rate
                  - queue-frame-based-accounting boolean
                  - rate number
                - filter
                  - ip reference
                  - ipv6 reference
                - qos
                  - policer-control-policy
                    - overrides
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - root
                        - max-rate (number | keyword)
                        - priority-mbs-thresholds
                          - min-thresh-separation (number | keyword)
                          - priority number
                            - apply-groups reference
                            - apply-groups-exclude reference
```


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configure service ies interface sap egress qos policer-control-policy overrides root priority-mbs-thresholds priority mbs-contribution

```
                                    - mbs-contribution (number | keyword)
                        - policy-name reference
                     - sap-egress
                        - overrides
                           - policer reference
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - cbs (number | keyword)
                              - mbs (number | keyword)
                              - packet-byte-offset number
                              - percent-rate
                                 - cir decimal-number
                                 - pir decimal-number
                              - rate
                                 - cir (number | keyword)
                                 - pir (number | keyword)
                              - stat-mode keyword
                           - queue reference
                              - adaptation-rule
                                 - cir keyword
                                 - pir keyword
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - avg-frame-overhead decimal-number
                              - cbs (number | keyword)
                              - drop-tail
                                 - low
                                    - percent-reduction-from-mbs (number | keyword)
                              - mbs (number | keyword)
                              - parent
                                 - cir-weight number
                                 - weight number
                              - percent-rate
                                 - cir decimal-number
                                 - pir decimal-number
                              - rate
                                 - cir (number | keyword)
                                 - pir (number | keyword)
                        - policy-name reference
                        - port-redirect-group
                           - group-name reference
                           - instance number
                     - scheduler-policy
                        - overrides
                           - scheduler named-item
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - parent
                                 - cir-weight number
                                 - weight number
                              - rate
                                 - cir (number | keyword)
                                 - pir (number | keyword)
                        - policy-name reference
               - ingress
                  - filter
                     - ip reference
                     - ipv6 reference
                  - qos
                     - policer-control-policy
                        - overrides
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - root
```


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configure service ies interface sap ingress qos policer-control-policy overrides root max-rate

```
                        - max-rate (number | keyword)
                        - priority-mbs-thresholds
                           - min-thresh-separation (number | keyword)
                           - priority number
                              - apply-groups reference
                              - apply-groups-exclude reference
                              - mbs-contribution (number | keyword)
                  - policy-name reference
               - sap-ingress
                  - fp-redirect-group
                     - group-name reference
                     - instance number
                  - overrides
                     - policer reference
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - mbs (number | keyword)
                        - packet-byte-offset number
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                        - stat-mode keyword
                     - queue reference
                        - adaptation-rule
                           - cir keyword
                           - pir keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - drop-tail
                           - low
                              - percent-reduction-from-mbs (number | keyword)
                        - mbs (number | keyword)
                        - parent
                           - cir-weight number
                           - weight number
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
               - scheduler-policy
                  - overrides
                     - scheduler named-item
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
         - ip-tunnel interface-name
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - backup-remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
```


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```
                - clear-df-bit boolean
                - delivery-service service-name
                - description description
                - dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                - dscp keyword
                - encapsulated-ip-mtu number
                - gre-header
                  - admin-state keyword
                  - key
                    - admin-state keyword
                    - receive number
                    - send number
                - icmp-generation
                  - frag-required
                    - admin-state keyword
                    - interval number
                    - message-count number
                - icmp6-generation
                  - packet-too-big
                    - admin-state keyword
                    - number number
                    - seconds number
                - ip-mtu number
                - ipsec-transport-mode-profile reference
                - local-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                - pmtu-discovery-aging number
                - private-tcp-mss-adjust number
                - propagate-pmtu-v4 boolean
                - propagate-pmtu-v6 boolean
                - public-tcp-mss-adjust (number | keyword)
                - reassembly (number | keyword)
                - remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
              - ipsec-gateway named-item
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - cert
                  - cert-profile reference
                  - status-verify
                    - default-result keyword
                    - primary keyword
                    - secondary keyword
                  - trust-anchor-profile reference
                - client-db
                  - fallback boolean
                  - name reference
                - default-secure-service
                  - interface interface-name
                  - service-name service-name
                - default-tunnel-template reference
                - dhcp-address-assignment
                  - dhcpv4
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - gi-address ipv4-unicast-address
                    - send-release boolean
                    - server
                      - address ipv4-unicast-address
                      - router-instance router-instance-base-vprn-loose
                  - dhcpv6
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
```


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configure service ies interface sap ipsec-gateway dhcp-address-assignment dhcpv6 link-address

```
                        - link-address ipv6-unicast-address
                        - send-release boolean
                        - server
                           - address ipv6-unicast-address
                           - router-instance router-instance-base-vprn-loose
                  - ike-policy reference
                  - local
                     - address-assignment
                        - admin-state keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - ipv4
                           - dhcp-server named-item
                           - pool named-item
                           - router-instance router-instance-base-vprn-loose
                           - secondary-pool named-item
                        - ipv6
                           - dhcp-server named-item
                           - pool named-item
                           - router-instance router-instance-base-vprn-loose
                     - gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
                     - id
                        - auto
                        - fqdn fully-qualified-domain-name
                        - ipv4 ipv4-unicast-address
                        - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                  - max-history-key-records
                     - esp number
                     - ike number
                  - mixed-tunnel-mode
                  - pre-shared-key encrypted-leaf
                  - radius
                     - accounting-policy reference
                     - authentication-policy reference
                  - ts-list reference
               - lag
               - multi-service-site reference
            - spoke-sdp sdp-bind-id
               - accounting-policy reference
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - collect-stats boolean
               - description description
               - egress
                  - filter
                     - ip reference
                     - ipv6 reference
                  - qos
                     - network
                        - policy-name reference
                        - port-redirect-group
                           - group-name reference
                           - instance number
                  - vc-label number
               - entropy-label
               - hash-label
                  - signal-capability
               - ingress
                  - filter
                     - ip reference
                     - ipv6 reference
                  - qos
                     - network
```


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configure service ies interface spoke-sdp ingress qos network fp-redirect-group

```
                        - fp-redirect-group
                           - group-name reference
                           - instance number
                        - policy-name reference
                  - vc-label number
               - vc-type keyword
            - static-tunnel-redundant-nexthop ipv4-unicast-address
            - tos-marking-state keyword
            - tunnel boolean
            - vas-if-type keyword
            - vpls named-item-64
               - apply-groups reference
               - apply-groups-exclude reference
               - egress
                  - reclassify-using-qos reference
                  - routed-override-filter
                     - ip reference
                     - ipv6 reference
               - evpn
                  - arp
                     - advertise keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - route-tag number
                     - flood-garp-and-unknown-req boolean
                     - learn-dynamic boolean
                  - nd
                     - advertise keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - route-tag number
                     - learn-dynamic boolean
               - ingress
                  - routed-override-filter
                     - ip reference
                     - ipv6 reference
         - ip-transport port
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - dscp-name keyword
            - filter-unknown-host boolean
            - local-host
               - ip-address ipv4-unicast-address
               - port-num number
               - protocol keyword
            - remote-host number
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - ip-address ipv4-unicast-address
               - port-num number
               - remote-host-name string
            - tcp
               - inactivity-timeout number
               - max-retries number
               - retry-interval number
         - service-id number
         - vpn-id number
      - mac-list named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
```


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configure service mac-list mac

```
        - mac mac-address
          - apply-groups reference
          - apply-groups-exclude reference
          - mask mac-address
      - md-auto-id
        - customer-id-range
          - apply-groups reference
          - apply-groups-exclude reference
          - end number
          - start number
        - pw-template-id-range
          - apply-groups reference
          - apply-groups-exclude reference
          - end number
          - start number
        - service-id-range
          - apply-groups reference
          - apply-groups-exclude reference
          - end number
          - start number
      - nat
        - apply-groups reference
        - apply-groups-exclude reference
        - cpm-nat-policy external-named-item
          - alg
            - ftp boolean
          - apply-groups reference
          - apply-groups-exclude reference
          - description description
          - filtering keyword
          - port-limits
            - dynamic-ports number
            - forwarding number
            - watermarks
              - high number
              - low number
          - session-limits
            - max number
            - watermarks
              - high number
              - low number
          - tcp
            - mss-adjust number
          - timeouts
            - icmp-query number
            - tcp
              - established number
              - syn number
              - time-wait number
              - transitory number
            - udp
              - dns number
              - initial number
              - normal number
          - udp
            - inbound-refresh boolean
        - nat-policy external-named-item
          - alg
            - ftp boolean
            - pptp boolean
            - rtsp boolean
            - sip boolean
          - apply-groups reference
          - apply-groups-exclude reference
```


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```
            - block-limit number
            - description description
            - filtering keyword
            - pool
               - name named-item
               - router-instance string
            - port-limits
               - dynamic-ports number
               - forwarding number
               - watermarks
                  - high number
                  - low number
            - session-limits
               - max number
               - watermarks
                  - high number
                  - low number
            - tcp
               - mss-adjust number
            - timeouts
               - icmp-query number
               - tcp
                  - established number
                  - syn number
                  - time-wait number
                  - transitory number
               - udp
                  - dns number
                  - initial number
                  - normal number
            - udp
               - inbound-refresh boolean
      - oper-group named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - bfd-liveness
            - apply-groups reference
            - apply-groups-exclude reference
            - dest-ip ipv4-unicast-address
            - interface-name interface-name
            - router-instance string
         - hold-time
            - down number
            - up number
      - proxy-arp-nd
         - mac-list
            - list named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - mac mac-unicast-address-no-zero
      - pw-template pw-template-name
         - accounting-policy number
         - allow-fragmentation boolean
         - apply-groups reference
         - apply-groups-exclude reference
         - auto-gre-sdp boolean
         - block-on-peer-fault boolean
         - collect-stats boolean
         - control-word boolean
         - egress
            - filter
               - ip named-item-64
               - ipv6 named-item-64
               - mac named-item-64
```


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configure service pw-template egress mfib-allowed-mda-destinations

```
            - mfib-allowed-mda-destinations
               - mda slot-mda
            - qos
               - network
                  - policy-name named-item-64
                  - port-redirect-group
                     - group-name named-item
                     - instance number
         - encryption-keygroup
            - inbound number
            - outbound number
         - entropy-label
         - fdb
            - auto-learn-mac-protect boolean
            - auto-learn-mac-protect-exclude-list named-item
            - discard-unknown-source boolean
            - limit-mac-move keyword
            - mac-learning
               - aging boolean
               - learning boolean
            - mac-pinning boolean
            - maximum-mac-addresses number
            - protected-src-mac-violation-action keyword
         - force-vc-forwarding keyword
         - hash-label
            - signal-capability
         - igmp-snooping
            - fast-leave boolean
            - import-policy named-item
            - maximum-number-groups number
            - query-interval number
            - query-last-member-interval number
            - query-response-interval number
            - robust-count number
            - send-queries boolean
            - version keyword
         - ingress
            - filter
               - ip named-item-64
               - ipv6 named-item-64
               - mac named-item-64
            - qos
               - network
                  - fp-redirect-group
                     - group-name named-item
                     - instance number
                  - policy-name named-item-64
         - l2pt
            - termination
               - protocols
                  - cdp boolean
                  - dtp boolean
                  - pagp boolean
                  - stp boolean
                  - udld boolean
                  - vtp boolean
         - path-mtu number
         - provisioned-sdp keyword
         - pw-template-id number
         - sdp-exclude reference
         - sdp-include reference
         - split-horizon-group
            - description description
            - fdb
```


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```
            - saps
               - auto-learn-mac-protect boolean
               - discard-unprotected-dest-mac boolean
               - protected-src-mac-violation-action keyword
         - name named-item
      - stp
         - admin-state keyword
         - auto-edge boolean
         - edge-port boolean
         - link-type keyword
         - path-cost number
         - priority number
         - root-guard boolean
      - vc-type keyword
      - vlan-vc-tag number
   - sdp number
      - accounting-policy reference
      - admin-state keyword
      - adv-mtu-override boolean
      - allow-fragmentation boolean
      - apply-groups reference
      - apply-groups-exclude reference
      - bgp-tunnel boolean
      - booking-factor number
      - collect-stats boolean
      - delivery-type keyword
      - description description
      - far-end
         - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
      - keep-alive
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - hello-time number
         - hold-down-time number
         - maximum-drop-count number
         - message-length number
         - timeout number
      - ldp boolean
      - local-end (ipv4-address-no-zone | ipv6-address-no-zone)
      - lsp named-item-64
      - metric number
      - mixed-lsp-mode
         - revert-time (number | keyword)
      - network-domain reference
      - path-mtu number
      - sdp-group reference
      - signaling keyword
      - sr-isis boolean
      - sr-ospf boolean
      - tunnel-far-end (ipv4-address-no-zone | ipv6-address-no-zone)
      - vlan-vc-etype etype-value
      - weighted-ecmp boolean
   - sdp-group
      - apply-groups reference
      - apply-groups-exclude reference
      - group-name named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - value number
   - system
      - apply-groups reference
      - apply-groups-exclude reference
      - bgp
```


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```
            - evpn
               - ad-per-es-route
                  - extended-evi-range boolean
                  - route-distinguisher-ip-address ipv4-address
                  - route-target-type keyword
               - ad-per-evi-routes
                  - attribute-propagation boolean
                  - bgp-path-selection boolean
                  - d-path-ignore boolean
               - ip-prefix-routes
                  - interface-ful
                     - attribute-uniform-propagation boolean
                     - bgp-path-selection boolean
                     - d-path-length-ignore boolean
               - mpls
               - multicast-leave-sync-propagation number
         - bgp-auto-rd-range
            - apply-groups reference
            - apply-groups-exclude reference
            - community-value
               - end number
               - start number
            - ip-address ipv4-address
         - fdb
            - apply-groups reference
            - apply-groups-exclude reference
            - table-size number
         - vpn-gre-source-ip ipv4-unicast-address
      - vpls service-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - bgp number
            - adv-service-mtu number
            - apply-groups reference
            - apply-groups-exclude reference
            - pw-template-binding reference
               - apply-groups reference
               - apply-groups-exclude reference
               - import-rt route-target
               - monitor-oper-group reference
               - oper-group reference
               - split-horizon-group named-item
            - route-distinguisher (keyword | vpn-route-distinguisher)
            - route-target
               - export route-target
               - import route-target
            - vsi-export reference
            - vsi-import reference
         - bgp-ad
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - vpls-id vpls-id
            - vsi-id-prefix ipv4-address
         - bgp-evpn
            - apply-groups reference
            - apply-groups-exclude reference
            - dhcp
               - description description
               - snoop boolean
            - dhcp6
               - description description
               - ldra
```


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configure service vpls bgp-evpn dhcp6 ldra interface-type

```
                  - interface-type keyword
            - evi number
            - ignore-mtu-mismatch boolean
            - incl-mcast-orig-ip ipv4-unicast-address
            - mac-duplication
               - blackhole boolean
               - detect
                  - num-moves number
                  - trusted-mac-move-factor number
                  - window number
               - retry (number | keyword)
               - trusted-mac-time number
            - mpls number
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - auto-bind-tunnel
                  - allow-flex-algo-fallback boolean
                  - ecmp number
                  - enforce-strict-tunnel-tagging boolean
                  - enforce-untagged-route keyword
                  - resolution keyword
                  - resolution-filter
                     - bgp boolean
                     - ldp boolean
                     - rsvp boolean
                     - sr-isis boolean
                     - sr-ospf boolean
                     - sr-ospf3 boolean
                     - sr-policy boolean
                     - sr-te boolean
                  - weighted-ecmp boolean
               - control-word boolean
               - default-route-tag one-byte-value
               - dynamic-egress-label-limit boolean
               - entropy-label boolean
               - evi-three-byte-auto-rt boolean
               - fdb
                  - protected-src-mac-violation-action keyword
               - force-vc-forwarding keyword
               - mh-mode keyword
               - oper-group reference
               - route-next-hop
                  - ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - system-ipv4
                  - system-ipv6
               - send-tunnel-encap
                  - mpls boolean
               - split-horizon-group reference
            - per-pe-etree-leaf
               - blackhole-non-local-leaf-macs boolean
            - routes
               - incl-mcast
                  - advertise-ingress-replication boolean
                  - advertise-l2-attributes boolean
               - ip-prefix
                  - advertise boolean
                  - domain-id domain-id
                  - include-direct-interface-host boolean
                  - link-bandwidth
                     - advertise
                        - max-dynamic-weight number
                        - weight (number | keyword)
                     - weighted-ecmp boolean
```


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```
            - mac-ip
               - advertise boolean
               - arp-nd-extended-community boolean
               - arp-nd-only-with-fdb-advertisement boolean
               - cfm-mac boolean
               - unknown-mac boolean
            - sel-mcast
               - advertise boolean
            - vlan-aware-bundle-eth-tag number
         - vlan-aware-bundle named-item
      - bgp-mh-site named-item
         - activation-timer number
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - boot-timer number
         - failed-threshold (number | keyword)
         - id number
         - mesh-sdp-binds
         - min-down-timer number
         - monitor-oper-group reference
         - sap sap
         - shg-name named-item
         - spoke-sdp sdp-bind-id
      - bgp-vpls
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - maximum-ve-id number
         - ve
            - id number
            - name named-item
      - customer reference
      - description description
      - endpoint named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - block-on-mesh-failure boolean
         - description description
         - fdb
            - auto-learn-mac-protect boolean
            - mac-pinning boolean
            - maximum-mac-addresses number
            - protected-src-mac-violation-action keyword
         - ignore-standby-signaling boolean
         - mc-endpoint number
            - apply-groups reference
            - apply-groups-exclude reference
            - mc-ep-peer
               - name named-item
               - peer-address reference
         - revert-time (number | keyword)
         - suppress-standby-signaling boolean
      - fdb
         - discard-unknown boolean
         - mac-learning
            - aging boolean
            - learning boolean
            - local-age-time number
            - remote-age-time number
         - mac-move
            - admin-state keyword
            - hold-down-time number
            - move-frequency number
```


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```
            - primary-cumulative-factor number
            - retry-count (number | keyword)
            - sap reference
               - apply-groups reference
               - apply-groups-exclude reference
               - level keyword
            - secondary-cumulative-factor number
            - spoke-sdp reference
               - apply-groups reference
               - apply-groups-exclude reference
               - level keyword
         - mac-subnet-length number
         - selective-learning boolean
         - static-mac
            - mac mac-unicast-address-no-zero
               - apply-groups reference
               - apply-groups-exclude reference
               - blackhole
               - endpoint reference
               - mesh-sdp reference
               - monitor keyword
               - sap reference
               - spoke-sdp reference
         - table
            - high-wmark number
            - low-wmark number
            - size number
      - igmp-snooping
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - query-interval number
         - query-source-address (keyword | ipv4-address)
         - report-source-address ipv4-address
         - robust-count number
      - ignore-l2vpn-mtu-mismatch boolean
      - interface interface-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description very-long-description
         - hold-time
            - ipv4
               - down
                  - init-only boolean
                  - seconds number
               - up
                  - seconds number
         - ipv4
            - neighbor-discovery
               - static-neighbor ipv4-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac-address mac-address
               - timeout number
            - primary
               - address ipv4-address
               - apply-groups reference
               - apply-groups-exclude reference
               - prefix-length number
         - mac mac-unicast-address
      - isid-policy
         - entry number
            - advertise-local boolean
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - range
               - end number
               - start number
            - use-def-mcast boolean
         - m-vpls boolean
         - mac-flush
            - tldp
               - propagate boolean
               - send-on-failure boolean
         - mac-protect
            - mac mac-address
         - mcast-ipv6-snooping-scope keyword
         - mcr-default-gtw
            - apply-groups reference
            - apply-groups-exclude reference
            - ip ipv4-unicast-address
            - mac mac-address
         - mesh-sdp sdp-bind-id
            - accounting-policy reference
            - admin-state keyword
            - adv-service-mtu number
            - apply-groups reference
            - apply-groups-exclude reference
            - collect-stats boolean
            - control-word boolean
            - description description
            - dhcp
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - snoop boolean
            - dhcp6
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - ldra
                  - interface-type keyword
            - egress
               - filter
                  - ip reference
                  - ipv6 reference
               - mfib-allowed-mda-destinations
                  - mda slot-mda
               - qos
                  - network
                     - policy-name reference
                     - port-redirect-group
                        - group-name reference
                        - instance number
               - vc-label number
            - entropy-label
            - eth-cfm
               - apply-groups reference
               - apply-groups-exclude reference
               - mep md-admin-name reference ma-admin-name reference mep-id number
                  - admin-state keyword
                  - ais
                     - client-meg-level number
                     - interface-support boolean
                     - interval number
                     - low-priority-defect keyword
                     - priority number
```


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```
                  - alarm-notification
                     - fng-alarm-time number
                     - fng-reset-time number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ccm boolean
                  - ccm-ltm-priority number
                  - description description
                  - direction keyword
                  - eth-test
                     - bit-error-threshold number
                     - test-pattern
                        - crc-tlv boolean
                        - pattern keyword
                  - fault-propagation keyword
                  - low-priority-defect keyword
                  - mac-address mac-unicast-address-no-zero
                  - one-way-delay-threshold number
            - fdb
               - auto-learn-mac-protect boolean
               - auto-learn-mac-protect-exclude-list reference
               - mac-pinning boolean
               - protected-src-mac-violation-action keyword
            - force-vc-forwarding keyword
            - hash-label
               - signal-capability
            - igmp-snooping
               - apply-groups reference
               - apply-groups-exclude reference
               - fast-leave boolean
               - import-policy reference
               - maximum-number-group-sources number
               - maximum-number-groups number
               - maximum-number-sources number
               - mrouter-port boolean
               - query-interval number
               - query-last-member-interval number
               - query-response-interval number
               - robust-count number
               - router-alert-check boolean
               - send-queries boolean
               - static
                  - group ipv4-multicast-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - source ipv4-unicast-address
                     - starg
               - version keyword
            - ingress
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - network
                     - fp-redirect-group
                        - group-name reference
                        - instance number
                     - policy-name reference
               - vc-label number
            - mld-snooping
               - apply-groups reference
               - apply-groups-exclude reference
               - fast-leave boolean
               - import-policy reference
```


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```
            - maximum-number-groups number
            - mrouter-port boolean
            - query-interval number
            - query-last-member-interval number
            - query-response-interval number
            - robust-count number
            - router-alert-check boolean
            - send-queries boolean
            - static
               - group ipv6-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv6-unicast-address
                  - starg
            - version keyword
         - vc-type keyword
         - vlan-vc-tag number
      - mfib
         - table
            - high-wmark number
            - low-wmark number
            - size number
      - mld-snooping
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - query-interval number
         - query-source-address (keyword | ipv6-address)
         - report-source-address ipv6-address
         - robust-count number
      - proxy-arp
         - admin-state keyword
         - age-time (number | keyword)
         - apply-groups reference
         - apply-groups-exclude reference
         - duplicate-detect
            - anti-spoof-mac mac-unicast-address-no-zero
            - hold-down-time (number | keyword)
            - num-moves number
            - static-blackhole boolean
            - window number
         - dynamic-arp
            - ip-address ipv4-unicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - mac-list reference
               - resolve-retry-time number
               - sap reference
         - dynamic-populate boolean
         - evpn
            - flood
               - gratuitous-arp boolean
               - unknown-arp-req boolean
            - route-tag number
         - flood
            - received-gratuitous-arp boolean
            - received-unknown-arp-req boolean
         - process-arp-probes boolean
         - restrict-non-configured-ip-address
            - sponge-mac mac-unicast-address-no-zero
         - send-refresh (number | keyword)
         - static-arp
            - ip-address ipv4-unicast-address
               - apply-groups reference
```


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```
                  - apply-groups-exclude reference
                  - mac mac-unicast-address-no-zero
            - table-size number
         - proxy-nd
            - admin-state keyword
            - age-time (number | keyword)
            - apply-groups reference
            - apply-groups-exclude reference
            - duplicate-detect
               - anti-spoof-mac mac-unicast-address-no-zero
               - hold-down-time (number | keyword)
               - num-moves number
               - static-blackhole boolean
               - window number
            - dynamic-neighbor
               - ip-address ipv6-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac-list reference
                  - resolve-retry-time number
                  - sap reference
            - dynamic-populate boolean
            - evpn
               - advertise-neighbor-type keyword
               - flood
                  - unknown-neighbor-advertise-host boolean
                  - unknown-neighbor-advertise-router boolean
                  - unknown-neighbor-solicitation boolean
               - route-tag number
            - flood
               - received-unknown-neighbor-advertise-host boolean
               - received-unknown-neighbor-advertise-router boolean
               - received-unknown-neighbor-solicitation boolean
            - process-dad-neighbor-solicitations boolean
            - restrict-non-configured-ip-address
               - sponge-mac mac-unicast-address-no-zero
            - send-refresh (number | keyword)
            - static-neighbor
               - ip-address ipv6-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac mac-unicast-address-no-zero
                  - type keyword
            - table-size number
         - routed-vpls
            - multicast
               - apply-groups reference
               - apply-groups-exclude reference
               - ipv4
               - ipv6
                  - mld-snooping
                     - mrouter-port boolean
         - sap sap
            - accounting-policy reference
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - arp-reply-agent keyword
            - bandwidth number
            - bgp-vpls-mh-veid number
            - bpdu-translation keyword
            - collect-stats boolean
            - description long-description
            - dhcp
```


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```
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - lease-populate
               - max-leases number
            - option-82
               - action keyword
               - circuit-id
                  - ascii-tuple
                  - hex-string hex-string
                  - none
                  - vlan-ascii-tuple
               - remote-id
                  - ascii-string string-not-all-spaces
                  - hex-string hex-string
                  - mac
                  - none
               - vendor-specific-option
                  - client-mac-address boolean
                  - sap-id boolean
                  - service-id boolean
                  - string string-not-all-spaces
                  - system-id boolean
            - proxy-server
               - admin-state keyword
               - emulated-server ipv4-unicast-address
               - lease-time
                  - radius-override boolean
                  - value number
            - snoop boolean
         - dhcp6
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - ldra
               - interface-type keyword
               - options
                  - interface-id
                     - ascii-tuple
                     - vlan-ascii-tuple
                  - remote-id
                     - mac
                     - string string
         - dist-cpu-protection reference
         - egress
            - agg-rate
               - queue-frame-based-accounting boolean
               - rate number
            - dest-mac-rewrite mac-unicast-address-no-zero
            - filter
               - ip reference
               - ipv6 reference
            - qos
               - policer-control-policy
                  - overrides
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - root
                        - max-rate (number | keyword)
                        - priority-mbs-thresholds
                           - min-thresh-separation (number | keyword)
                           - priority number
                              - apply-groups reference
```


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configure service vpls sap egress qos policer-control-policy overrides root priority-mbs-thresholds priority apply-groups-exclude

```
                              - apply-groups-exclude reference
                              - mbs-contribution (number | keyword)
                  - policy-name reference
               - sap-egress
                  - overrides
                     - policer reference
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - cbs (number | keyword)
                        - mbs (number | keyword)
                        - packet-byte-offset number
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                        - stat-mode keyword
                     - queue reference
                        - adaptation-rule
                           - cir keyword
                           - pir keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - avg-frame-overhead decimal-number
                        - cbs (number | keyword)
                        - drop-tail
                           - low
                              - percent-reduction-from-mbs (number | keyword)
                        - mbs (number | keyword)
                        - parent
                           - cir-weight number
                           - weight number
                        - percent-rate
                           - cir decimal-number
                           - pir decimal-number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
                  - port-redirect-group
                     - group-name reference
                     - instance number
               - scheduler-policy
                  - overrides
                     - scheduler named-item
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
            - eth-cfm
               - apply-groups reference
               - apply-groups-exclude reference
               - mep md-admin-name reference ma-admin-name reference mep-id number
                  - admin-state keyword
                  - ais
                     - client-meg-level number
                     - interface-support boolean
                     - interval number
```


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configure service vpls sap eth-cfm mep ais low-priority-defect

```
                  - low-priority-defect keyword
                  - priority number
               - alarm-notification
                  - fng-alarm-time number
                  - fng-reset-time number
               - apply-groups reference
               - apply-groups-exclude reference
               - ccm boolean
               - ccm-ltm-priority number
               - description description
               - direction keyword
               - eth-test
                  - bit-error-threshold number
                  - test-pattern
                     - crc-tlv boolean
                     - pattern keyword
               - fault-propagation keyword
               - low-priority-defect keyword
               - mac-address mac-unicast-address-no-zero
               - one-way-delay-threshold number
         - fdb
            - auto-learn-mac-protect boolean
            - auto-learn-mac-protect-exclude-list reference
            - discard-unknown-source boolean
            - discard-unprotected-dest-mac boolean
            - limit-mac-move keyword
            - mac-learning
               - aging boolean
               - learning boolean
            - mac-pinning boolean
            - maximum-mac-addresses number
            - protected-src-mac-violation-action keyword
         - i-vpls-mac-flush
            - bgp-evpn
         - igmp-snooping
            - apply-groups reference
            - apply-groups-exclude reference
            - fast-leave boolean
            - import-policy reference
            - maximum-number-group-sources number
            - maximum-number-groups number
            - maximum-number-sources number
            - mrouter-port boolean
            - query-interval number
            - query-last-member-interval number
            - query-response-interval number
            - robust-count number
            - router-alert-check boolean
            - send-queries boolean
            - static
               - group ipv4-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv4-unicast-address
                  - starg
            - version keyword
         - ingress
            - filter
               - ip reference
               - ipv6 reference
            - qos
               - policer-control-policy
                  - overrides
                     - apply-groups reference
```


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configure service vpls sap ingress qos policer-control-policy overrides apply-groups-exclude

```
                        - apply-groups-exclude reference
                        - root
                           - max-rate (number | keyword)
                           - priority-mbs-thresholds
                              - min-thresh-separation (number | keyword)
                              - priority number
                                 - apply-groups reference
                                 - apply-groups-exclude reference
                                 - mbs-contribution (number | keyword)
                     - policy-name reference
                  - sap-ingress
                     - fp-redirect-group
                        - group-name reference
                        - instance number
                     - overrides
                        - policer reference
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - cbs (number | keyword)
                           - mbs (number | keyword)
                           - packet-byte-offset number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                           - stat-mode keyword
                        - queue reference
                           - adaptation-rule
                              - cir keyword
                              - pir keyword
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - cbs (number | keyword)
                           - drop-tail
                              - low
                                 - percent-reduction-from-mbs (number | keyword)
                           - mbs (number | keyword)
                           - parent
                              - cir-weight number
                              - weight number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                     - policy-name reference
                  - scheduler-policy
                     - overrides
                        - scheduler named-item
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - parent
                              - cir-weight number
                              - weight number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                     - policy-name reference
               - qtag-manipulation
                  - c-tag (number | keyword)
                  - push-dot1q-vlan (number | keyword)
```


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```
                - s-tag number
            - l2pt
                - force-boundary
                    - protocols
                        - cdp boolean
                        - dtp boolean
                        - pagp boolean
                        - stp boolean
                        - udld boolean
                        - vtp boolean
                - termination
                    - protocols
                        - cdp boolean
                        - dtp boolean
                        - pagp boolean
                        - stp boolean
                        - udld boolean
                        - vtp boolean
            - lag
            - managed-vlan-list
                - range string
            - mc-ring
                - apply-groups reference
                - apply-groups-exclude reference
                - ring-node named-item
            - mld-snooping
                - apply-groups reference
                - apply-groups-exclude reference
                - fast-leave boolean
                - import-policy reference
                - maximum-number-groups number
                - mrouter-port boolean
                - query-interval number
                - query-last-member-interval number
                - query-response-interval number
                - robust-count number
                - router-alert-check boolean
                - send-queries boolean
                - static
                    - group ipv6-multicast-address
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - source ipv6-unicast-address
                        - starg
                - version keyword
            - monitor-oper-group reference
            - multi-service-site reference
            - oper-group reference
            - process-cpm-traffic-on-sap-down boolean
            - split-horizon-group reference
            - stp
                - admin-state keyword
                - auto-edge boolean
                - edge-port boolean
                - link-type keyword
                - mst-instance number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - mst-path-cost number
                    - mst-port-priority number
                - path-cost number
                - port-num number
                - priority number
                - root-guard boolean
```


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```
        - service-id number
        - service-mtu number
        - split-horizon-group named-item
           - apply-groups reference
           - apply-groups-exclude reference
           - description description
           - fdb
              - saps
                 - auto-learn-mac-protect boolean
                 - auto-learn-mac-protect-exclude-list reference
                 - discard-unprotected-dest-mac boolean
                 - protected-src-mac-violation-action keyword
        - spoke-sdp sdp-bind-id
           - accounting-policy reference
           - admin-state keyword
           - adv-service-mtu number
           - apply-groups reference
           - apply-groups-exclude reference
           - block-on-mesh-failure boolean
           - bpdu-translation keyword
           - collect-stats boolean
           - control-word boolean
           - description description
           - dhcp
              - apply-groups reference
              - apply-groups-exclude reference
              - description description
              - snoop boolean
           - dhcp6
              - apply-groups reference
              - apply-groups-exclude reference
              - description description
              - ldra
                 - interface-type keyword
           - egress
              - filter
                 - ip reference
                 - ipv6 reference
              - mfib-allowed-mda-destinations
                 - mda slot-mda
              - qos
                 - network
                    - policy-name reference
                    - port-redirect-group
                       - group-name reference
                       - instance number
              - vc-label number
           - endpoint
              - name reference
              - precedence (number | keyword)
           - entropy-label
           - eth-cfm
              - apply-groups reference
              - apply-groups-exclude reference
              - mep md-admin-name reference ma-admin-name reference mep-id number
                 - admin-state keyword
                 - ais
                    - client-meg-level number
                    - interface-support boolean
                    - interval number
                    - low-priority-defect keyword
                    - priority number
                 - alarm-notification
                    - fng-alarm-time number
```


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```
                  - fng-reset-time number
               - apply-groups reference
               - apply-groups-exclude reference
               - ccm boolean
               - ccm-ltm-priority number
               - description description
               - direction keyword
               - eth-test
                  - bit-error-threshold number
                  - test-pattern
                     - crc-tlv boolean
                     - pattern keyword
               - fault-propagation keyword
               - low-priority-defect keyword
               - mac-address mac-unicast-address-no-zero
               - one-way-delay-threshold number
         - fdb
            - auto-learn-mac-protect boolean
            - auto-learn-mac-protect-exclude-list reference
            - discard-unknown-source boolean
            - limit-mac-move keyword
            - mac-learning
               - aging boolean
               - learning boolean
            - mac-pinning boolean
            - maximum-mac-addresses number
            - protected-src-mac-violation-action keyword
         - force-vc-forwarding keyword
         - hash-label
            - signal-capability
         - igmp-snooping
            - apply-groups reference
            - apply-groups-exclude reference
            - fast-leave boolean
            - import-policy reference
            - maximum-number-group-sources number
            - maximum-number-groups number
            - maximum-number-sources number
            - mrouter-port boolean
            - query-interval number
            - query-last-member-interval number
            - query-response-interval number
            - robust-count number
            - router-alert-check boolean
            - send-queries boolean
            - static
               - group ipv4-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv4-unicast-address
                  - starg
            - version keyword
         - ignore-standby-signaling boolean
         - ingress
            - filter
               - ip reference
               - ipv6 reference
            - qos
               - network
                  - fp-redirect-group
                     - group-name reference
                     - instance number
                  - policy-name reference
            - vc-label number
```


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```
            - l2pt
               - termination
                  - protocols
                     - cdp boolean
                     - dtp boolean
                     - pagp boolean
                     - stp boolean
                     - udld boolean
                     - vtp boolean
            - mld-snooping
               - apply-groups reference
               - apply-groups-exclude reference
               - fast-leave boolean
               - import-policy reference
               - maximum-number-groups number
               - mrouter-port boolean
               - query-interval number
               - query-last-member-interval number
               - query-response-interval number
               - robust-count number
               - router-alert-check boolean
               - send-queries boolean
               - static
                  - group ipv6-multicast-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - source ipv6-unicast-address
                     - starg
               - version keyword
            - monitor-oper-group reference
            - oper-group reference
            - pw-status
               - signaling boolean
            - split-horizon-group reference
            - stp
               - admin-state keyword
               - auto-edge boolean
               - edge-port boolean
               - link-type keyword
               - path-cost number
               - port-num number
               - priority number
               - root-guard boolean
            - vc-type keyword
            - vlan-vc-tag number
         - stp
            - admin-state keyword
            - forward-delay number
            - hello-time number
            - hold-count number
            - maximum-age number
            - mode keyword
            - mst-instance number
               - apply-groups reference
               - apply-groups-exclude reference
               - mst-priority number
               - vlan-range string
            - mst-maximum-hops number
            - mst-name named-item
            - mst-revision number
            - priority number
         - temp-flooding number
         - tunnel-elmi boolean
         - vpn-id number
```


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```
- vprn service-name
  - aaa
    - remote-servers
      - radius
        - access-algorithm keyword
        - accounting boolean
        - accounting-port number
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - authorization boolean
        - interactive-authentication boolean
        - port number
        - server number
          - address (ipv4-address-no-zone | ipv6-address-no-zone)
          - apply-groups reference
          - apply-groups-exclude reference
          - authenticator keyword
          - secret encrypted-leaf
          - tls-client-profile reference
        - server-retry number
        - server-timeout number
        - use-default-template boolean
      - tacplus
        - accounting
          - record-type keyword
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - authorization
          - request-format
            - access-operation-cmd keyword
          - use-priv-lvl boolean
        - ignore-unknown-mandatory-vsas boolean
        - interactive-authentication boolean
        - priv-lvl-map
          - priv-lvl number
            - apply-groups reference
            - apply-groups-exclude reference
            - user-profile-name reference
        - server number
          - address (ipv4-address-no-zone | ipv6-address-no-zone)
          - apply-groups reference
          - apply-groups-exclude reference
          - port number
          - secret encrypted-leaf
        - server-retry-timeout (number | keyword)
        - server-timeout number
        - service-request
          - nokia-grpc-rpc-authorization boolean
          - nokia-netconf-base-op-authorization boolean
          - nokia-user boolean
          - nokia-user-profile boolean
        - use-default-template boolean
  - admin-state keyword
  - aggregates
    - aggregate (ipv4-prefix | ipv6-prefix)
      - aggregator
        - address ipv4-unicast-address
        - as-number number
      - apply-groups reference
      - apply-groups-exclude reference
      - as-set boolean
      - blackhole
```


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configure service vprn aggregates aggregate blackhole generate-icmp

```
                - generate-icmp boolean
             - community community
             - description description
             - discard-component-communities boolean
             - indirect (ipv4-address-no-zone | ipv6-address-no-zone)
             - local-preference number
             - policy reference
             - summary-only boolean
             - tunnel-group number
          - apply-groups reference
          - apply-groups-exclude reference
       - allow-export-bgp-vpn boolean
       - apply-groups reference
       - apply-groups-exclude reference
       - autonomous-system number
       - bgp
          - admin-state keyword
          - advertise-inactive boolean
          - advertise-ipv6-next-hops
             - ipv4 boolean
          - aggregator-id-zero boolean
          - apply-groups reference
          - apply-groups-exclude reference
          - asn-4-byte boolean
          - attribute-set
             - remove boolean
          - authentication-key encrypted-leaf
          - authentication-keychain reference
          - backup-path
             - ipv4 boolean
             - ipv6 boolean
             - label-ipv4 boolean
             - label-ipv6 boolean
          - best-path-selection
             - always-compare-med
                - med-value keyword
                - strict-as boolean
             - as-path-ignore
                - ipv4 boolean
                - ipv6 boolean
                - label-ipv4 boolean
                - label-ipv6 boolean
             - compare-origin-validation-state boolean
             - deterministic-med boolean
             - ebgp-ibgp-equal
                - ipv4 boolean
                - ipv6 boolean
                - label-ipv4 boolean
                - label-ipv6 boolean
             - ignore-nh-metric boolean
             - ignore-router-id
             - origin-invalid-unusable boolean
          - bfd-liveness boolean
          - bfd-strict-mode
             - advertise
                - holdtime number
             - next-hop-reachability boolean
          - client-reflect boolean
          - cluster
             - cluster-id ipv4-address
          - connect-retry number
          - convergence
             - family keyword
                - apply-groups reference
```


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configure service vprn bgp convergence family apply-groups-exclude

```
                  - apply-groups-exclude reference
                  - max-wait-to-advertise number
               - min-wait-to-advertise number
            - damp-peer-oscillations
               - error-interval number
               - idle-hold-time
                  - initial-wait number
                  - max-wait number
                  - second-wait number
            - damping boolean
            - default-label-preference
               - ebgp number
               - ibgp number
            - default-preference
               - ebgp number
               - ibgp number
            - description description
            - dynamic-neighbor-limit number
            - ebgp-default-reject-policy
               - export boolean
               - import boolean
            - eibgp-loadbalance boolean
            - enforce-first-as boolean
            - error-handling
               - legacy-mode boolean
               - update-fault-tolerance boolean
            - export
               - apply-groups reference
               - apply-groups-exclude reference
               - policy (policy-expr-string | string)
            - extended-nh-encoding
               - ipv4 boolean
            - family
               - flow-ipv6 boolean
               - ipv4 boolean
               - ipv6 boolean
               - label-ipv4 boolean
               - mcast-ipv4 boolean
               - mcast-ipv6 boolean
            - fast-external-failover boolean
            - graceful-restart
               - gr-notification boolean
               - long-lived
                  - advertise-stale-to-all-neighbors boolean
                  - advertised-stale-time number
                  - family keyword
                     - advertised-stale-time number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - helper-override-stale-time number
                  - forwarding-bits-set keyword
                  - helper-override-restart-time number
                  - helper-override-stale-time number
                  - without-no-export boolean
               - restart-time number
               - stale-routes-time number
            - group named-item-64
               - admin-state keyword
               - advertise-inactive boolean
               - advertise-ipv6-next-hops
                  - ipv4 boolean
               - aggregator-id-zero boolean
               - apply-groups reference
               - apply-groups-exclude reference
```


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```
                - as-override boolean
                - asn-4-byte boolean
                - authentication-key encrypted-leaf
                - authentication-keychain reference
                - bfd-liveness boolean
                - bfd-strict-mode
                  - advertise
                    - holdtime number
                  - next-hop-reachability boolean
                - capability-negotiation boolean
                - client-reflect boolean
                - cluster
                  - cluster-id ipv4-address
                - connect-retry number
                - damp-peer-oscillations
                  - error-interval number
                  - idle-hold-time
                    - initial-wait number
                    - max-wait number
                    - second-wait number
                - damping boolean
                - default-label-preference
                  - ebgp number
                  - ibgp number
                - default-preference
                  - ebgp number
                  - ibgp number
                - description description
                - dynamic-neighbor
                  - interface reference
                    - allowed-peer-as string
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - max-sessions number
                  - match
                    - prefix (ipv4-prefix | ipv6-prefix)
                      - allowed-peer-as string
                      - apply-groups reference
                      - apply-groups-exclude reference
                - dynamic-neighbor-limit number
                - ebgp-default-reject-policy
                  - export boolean
                  - import boolean
                - enforce-first-as boolean
                - error-handling
                  - update-fault-tolerance boolean
                - evpn-link-bandwidth
                  - add-to-received-bgp number
                - export
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
                - extended-nh-encoding
                  - ipv4 boolean
                - family
                  - flow-ipv6 boolean
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
                  - mcast-ipv4 boolean
                  - mcast-ipv6 boolean
                - fast-external-failover boolean
                - graceful-restart
                  - gr-notification boolean
```


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```
                  - long-lived
                     - advertise-stale-to-all-neighbors boolean
                     - advertised-stale-time number
                     - family keyword
                        - advertised-stale-time number
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - helper-override-stale-time number
                     - forwarding-bits-set keyword
                     - helper-override-restart-time number
                     - helper-override-stale-time number
                     - without-no-export boolean
                  - restart-time number
                  - stale-routes-time number
               - hold-time
                  - minimum-hold-time number
                  - seconds number
               - import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
               - initial-send-delay-zero boolean
               - keepalive number
               - label-preference number
               - link-bandwidth
                  - accept-from-ebgp
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
                  - add-to-received-ebgp
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
                  - aggregate-used-paths
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
                  - send-to-ebgp
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
               - local-address (ipv4-address-no-zone | ipv6-address-no-zone | interface-name)
               - local-as
                  - as-number number
                  - prepend-global-as boolean
                  - private boolean
               - local-preference number
               - loop-detect keyword
               - loop-detect-threshold number
               - med-out (number | keyword)
               - min-route-advertisement number
               - multihop number
               - multipath-eligible boolean
               - next-hop-self boolean
               - origin-validation
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
               - passive boolean
               - path-mtu-discovery boolean
               - peer-as number
               - peer-ip-tracking boolean
               - preference number
               - prefix-limit keyword
```


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```
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - hold-excess number
                  - idle-timeout number
                  - log-only boolean
                  - maximum number
                  - post-import boolean
                  - threshold number
               - remove-private
                  - limited boolean
                  - replace boolean
                  - skip-peer-as boolean
               - send-communities
                  - extended boolean
                  - large boolean
                  - standard boolean
               - send-default
                  - export-policy reference
                  - ipv4 boolean
                  - ipv6 boolean
               - split-horizon boolean
               - static-group boolean
               - tcp-mss (number | keyword)
               - third-party-nexthop boolean
               - ttl-security number
               - type keyword
            - hold-time
               - minimum-hold-time number
               - seconds number
            - ibgp-multipath boolean
            - import
               - apply-groups reference
               - apply-groups-exclude reference
               - policy (policy-expr-string | string)
            - initial-send-delay-zero boolean
            - keepalive number
            - label-preference number
            - local-as
               - as-number number
               - prepend-global-as boolean
               - private boolean
            - local-preference number
            - loop-detect keyword
            - loop-detect-threshold number
            - med-out (number | keyword)
            - min-route-advertisement number
            - multihop number
            - multipath
               - ebgp number
               - family keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ebgp number
                  - ibgp number
                  - max-paths number
                  - restrict keyword
                  - unequal-cost boolean
               - ibgp number
               - max-paths number
               - restrict keyword
               - unequal-cost boolean
            - neighbor (ipv4-address-with-zone | ipv6-address-with-zone)
               - admin-state keyword
               - advertise-inactive boolean
```


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```
                - advertise-ipv6-next-hops
                  - ipv4 boolean
                - aggregator-id-zero boolean
                - apply-groups reference
                - apply-groups-exclude reference
                - as-override boolean
                - asn-4-byte boolean
                - authentication-key encrypted-leaf
                - authentication-keychain reference
                - bfd-liveness boolean
                - bfd-strict-mode
                  - advertise
                    - holdtime number
                  - next-hop-reachability boolean
                - capability-negotiation boolean
                - client-reflect boolean
                - cluster
                  - cluster-id ipv4-address
                - connect-retry number
                - damp-peer-oscillations
                  - error-interval number
                  - idle-hold-time
                    - initial-wait number
                    - max-wait number
                    - second-wait number
                - damping boolean
                - default-label-preference
                  - ebgp number
                  - ibgp number
                - default-preference
                  - ebgp number
                  - ibgp number
                - description description
                - ebgp-default-reject-policy
                  - export boolean
                  - import boolean
                - enforce-first-as boolean
                - error-handling
                  - update-fault-tolerance boolean
                - evpn-link-bandwidth
                  - add-to-received-bgp number
                - export
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
                - extended-nh-encoding
                  - ipv4 boolean
                - family
                  - flow-ipv6 boolean
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
                  - mcast-ipv4 boolean
                  - mcast-ipv6 boolean
                - fast-external-failover boolean
                - graceful-restart
                  - gr-notification boolean
                  - long-lived
                    - advertise-stale-to-all-neighbors boolean
                    - advertised-stale-time number
                    - family keyword
                      - advertised-stale-time number
                      - apply-groups reference
                      - apply-groups-exclude reference
```


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configure service vprn bgp neighbor graceful-restart long-lived family helper-override-stale-time

```
                        - helper-override-stale-time number
                     - forwarding-bits-set keyword
                     - helper-override-restart-time number
                     - helper-override-stale-time number
                     - without-no-export boolean
                  - restart-time number
                  - stale-routes-time number
               - group reference
               - hold-time
                  - minimum-hold-time number
                  - seconds number
               - import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
               - initial-send-delay-zero boolean
               - keepalive number
               - label-preference number
               - link-bandwidth
                  - accept-from-ebgp
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
                  - add-to-received-ebgp
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
                  - aggregate-used-paths
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
                  - send-to-ebgp
                     - ipv4 boolean
                     - ipv6 boolean
                     - label-ipv4 boolean
               - local-address (ipv4-address-no-zone | ipv6-address-no-zone | interface-name)
               - local-as
                  - as-number number
                  - prepend-global-as boolean
                  - private boolean
               - local-preference number
               - loop-detect keyword
               - loop-detect-threshold number
               - med-out (number | keyword)
               - min-route-advertisement number
               - multihop number
               - multipath-eligible boolean
               - next-hop-self boolean
               - origin-validation
                  - ipv4 boolean
                  - ipv6 boolean
                  - label-ipv4 boolean
               - passive boolean
               - path-mtu-discovery boolean
               - peer-as number
               - peer-creation-type keyword
               - peer-ip-tracking boolean
               - preference number
               - prefix-limit keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - hold-excess number
                  - idle-timeout number
                  - log-only boolean
```


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configure service vprn bgp neighbor prefix-limit maximum

```
                  - maximum number
                  - post-import boolean
                  - threshold number
               - remove-private
                  - limited boolean
                  - replace boolean
                  - skip-peer-as boolean
               - send-communities
                  - extended boolean
                  - large boolean
                  - standard boolean
               - send-default
                  - export-policy reference
                  - ipv4 boolean
                  - ipv6 boolean
               - split-horizon boolean
               - tcp-mss (number | keyword)
               - third-party-nexthop boolean
               - ttl-security number
               - type keyword
            - next-hop-resolution
               - policy reference
               - use-bgp-routes boolean
               - use-leaked-routes
                  - static boolean
            - path-mtu-discovery boolean
            - peer-ip-tracking boolean
            - peer-tracking-policy reference
            - preference number
            - rapid-update
               - ipv4 boolean
               - ipv6 boolean
            - rapid-withdrawal boolean
            - remove-private
               - limited boolean
               - replace boolean
               - skip-peer-as boolean
            - rib-management
               - ipv4
                  - leak-import
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - policy (policy-expr-string | string)
                  - route-table-import
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - policy-name reference
               - ipv6
                  - leak-import
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - policy (policy-expr-string | string)
                  - route-table-import
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - policy-name reference
               - label-ipv4
                  - leak-import
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - policy (policy-expr-string | string)
                  - route-table-import
                     - apply-groups reference
                     - apply-groups-exclude reference
```


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configure service vprn bgp rib-management label-ipv4 route-table-import policy-name

```
                  - policy-name reference
            - label-ipv6
               - leak-import
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - policy (policy-expr-string | string)
         - router-id ipv4-address
         - send-communities
            - extended boolean
            - large boolean
            - standard boolean
         - send-default
            - export-policy reference
            - ipv4 boolean
            - ipv6 boolean
         - split-horizon boolean
         - tcp-mss number
         - third-party-nexthop boolean
      - bgp-evpn
         - mpls number
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - auto-bind-tunnel
               - allow-flex-algo-fallback boolean
               - ecmp number
               - enforce-strict-tunnel-tagging boolean
               - enforce-untagged-route keyword
               - resolution keyword
               - resolution-filter
                  - bgp boolean
                  - ldp boolean
                  - rsvp boolean
                  - sr-isis boolean
                  - sr-ospf boolean
                  - sr-ospf3 boolean
                  - sr-policy boolean
                  - sr-te boolean
            - default-route-tag one-byte-value
            - domain-id domain-id
            - dynamic-egress-label-limit boolean
            - evi number
            - evpn-link-bandwidth
               - advertise
                  - max-dynamic-weight number
                  - weight (number | keyword)
               - weighted-ecmp boolean
            - gateway-ip
               - advertise boolean
               - resolve boolean
            - route-distinguisher (string | keyword)
            - send-tunnel-encap
               - mpls boolean
            - vrf-export
               - apply-groups reference
               - apply-groups-exclude reference
               - policy (policy-expr-string | string)
            - vrf-import
               - apply-groups reference
               - apply-groups-exclude reference
               - policy (policy-expr-string | string)
            - vrf-target
               - community route-target
               - export-community route-target
```


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```
                - import-community route-target
        - bgp-ipvpn
            - attribute-set
                - export boolean
                - import keyword
            - mpls
                - admin-state keyword
                - auto-bind-tunnel
                    - allow-flex-algo-fallback boolean
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - ecmp number
                    - enforce-strict-tunnel-tagging boolean
                    - enforce-untagged-route keyword
                    - resolution keyword
                    - resolution-filter
                        - bgp boolean
                        - gre boolean
                        - ldp boolean
                        - rsvp boolean
                        - sr-isis boolean
                        - sr-ospf boolean
                        - sr-ospf3 boolean
                        - sr-policy boolean
                        - sr-te boolean
                    - static-blackhole-first boolean
                    - weighted-ecmp boolean
                - domain-id domain-id
                - dynamic-egress-label-limit boolean
                - route-distinguisher (string | keyword)
                - vrf-export
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - policy (policy-expr-string | string)
                - vrf-import
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - policy (policy-expr-string | string)
                - vrf-target
                    - community route-target
                    - export-community route-target
                    - import-community route-target
        - bgp-shared-queue
            - cir (number | keyword)
            - pir (number | keyword)
        - bgp-vpn-backup
            - ipv4 boolean
            - ipv6 boolean
        - carrier-carrier-vpn boolean
        - confederation
            - confed-as-num number
            - members number
        - customer reference
        - d-path-length-ignore boolean
        - description description
        - dhcp-server
            - apply-groups reference
            - apply-groups-exclude reference
            - dhcpv4 named-item
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - description description
                - failover
```


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```
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ignore-mclt-on-takeover boolean
                  - maximum-client-lead-time number
                  - partner-down-delay number
                  - peer reference
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - sync-tag named-item
                  - startup-wait-time number
               - force-renews boolean
               - lease-hold
                  - additional-scenarios
                     - fwa-address-assignment boolean
                     - internal-lease-ipsec boolean
                     - solicited-release boolean
                  - time number
               - pool named-item
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - failover
                     - admin-state keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - ignore-mclt-on-takeover boolean
                     - maximum-client-lead-time number
                     - partner-down-delay number
                     - peer reference
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - sync-tag named-item
                     - startup-wait-time number
                  - max-lease-time number
                  - min-lease-time number
                  - minimum-free
                     - absolute number
                     - event-when-depleted boolean
                     - percent number
                  - nak-non-matching-subnet boolean
                  - offer-time number
                  - options
                     - option (number | keyword)
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - ascii-string string-not-all-spaces
                        - duration number
                        - empty
                        - hex-string hex-string
                        - ipv4-address ipv4-address
                        - netbios-node-type keyword
                  - subnet ipv4-unicast-prefix
                     - address-range ipv4-unicast-address end ipv4-unicast-address
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - failover-control-type keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - drain boolean
                     - exclude-addresses ipv4-unicast-address end ipv4-unicast-address
                     - maximum-declined number
                     - minimum-free
                        - absolute number
```


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```
                        - event-when-depleted boolean
                        - percent number
                     - options
                        - option (number | keyword)
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - ascii-string string-not-all-spaces
                           - duration number
                           - empty
                           - hex-string hex-string
                           - ipv4-address ipv4-address
                           - netbios-node-type keyword
               - pool-selection
                  - use-gi-address
                     - scope keyword
                  - use-pool-from-client
                     - delimiter string-not-all-spaces
               - user-db reference
               - user-identification keyword
            - dhcpv6 named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - auto-provisioned boolean
               - defaults
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - options
                     - option (number | keyword)
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - ascii-string string-not-all-spaces
                        - domain-string string
                        - duration number
                        - empty
                        - hex-string hex-string
                        - ipv6-address ipv6-address
                  - preferred-lifetime number
                  - rebind-time number
                  - renew-time number
                  - valid-lifetime number
               - description description
               - failover
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ignore-mclt-on-takeover boolean
                  - maximum-client-lead-time number
                  - partner-down-delay number
                  - peer reference
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - sync-tag named-item
                  - startup-wait-time number
               - ignore-rapid-commit boolean
               - interface-id-mapping boolean
               - lease-hold
                  - additional-scenarios
                     - fwa-address-assignment boolean
                     - internal-lease-ipsec boolean
                     - solicited-release boolean
                  - time number
               - lease-query boolean
               - pool named-item
```


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```
                - apply-groups reference
                - apply-groups-exclude reference
                - delegated-prefix
                  - length number
                  - maximum number
                  - minimum number
                - description description
                - exclude-prefix ipv6-prefix
                - failover
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ignore-mclt-on-takeover boolean
                  - maximum-client-lead-time number
                  - partner-down-delay number
                  - peer reference
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - sync-tag named-item
                  - startup-wait-time number
                - options
                  - option (number | keyword)
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - ascii-string string-not-all-spaces
                    - domain-string string
                    - duration number
                    - empty
                    - hex-string hex-string
                    - ipv6-address ipv6-address
                - prefix ipv6-prefix
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - drain boolean
                  - failover-control-type keyword
                  - options
                    - option (number | keyword)
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - ascii-string string-not-all-spaces
                      - domain-string string
                      - duration number
                      - empty
                      - hex-string hex-string
                      - ipv6-address ipv6-address
                  - preferred-lifetime number
                  - prefix-length-threshold number
                    - absolute number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - event-when-depleted boolean
                    - percent number
                  - prefix-type
                    - pd boolean
                    - wan-host boolean
                  - rebind-time number
                  - renew-time number
                  - valid-lifetime number
                - prefix-length-threshold number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - event-when-depleted boolean
                  - minimum-free-percent number
              - pool-selection
```


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```
                - use-link-address
                  - scope keyword
                - use-pool-from-client
                  - delimiter string-not-all-spaces
            - server-id
               - apply-groups reference
               - apply-groups-exclude reference
               - duid-enterprise
                  - ascii-string string-not-all-spaces
                  - hex-string hex-string
               - duid-link-local
            - user-db reference
            - user-identification keyword
      - dns
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - default-domain fully-qualified-domain-name
         - ipv4-source-address (keyword | ipv4-unicast-address)
         - ipv6-source-address (keyword | ipv6-unicast-address)
         - server (ipv4-address-no-zone | ipv6-address-no-zone)
      - ecmp number
      - ecmp-unequal-cost boolean
      - entropy-label boolean
      - evpn-neighbor-synchronization
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - evi-route-target evi-route-target
         - retention-timer number
         - route-distinguisher vpn-route-distinguisher
         - route-tag number
      - export-inactive-bgp boolean
      - export-inactive-bgp-enhanced boolean
      - fib-priority keyword
      - grt-leaking
         - allow-local-management boolean
         - apply-groups reference
         - apply-groups-exclude reference
         - export-grt
            - policy-name (policy-expr-string | string)
         - export-limit number
         - export-v6-limit number
         - grt-lookup boolean
         - import-grt
            - policy-name (policy-expr-string | string)
      - hash-label boolean
      - igmp
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - group-if-query-source-address ipv4-unicast-address
         - interface interface-name
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - import-policy reference
            - maximum-number-group-sources number
            - maximum-number-groups number
            - maximum-number-sources number
            - query-interval number
            - query-last-member-interval number
            - query-response-interval number
            - redundant-mcast boolean
```


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configure service vprn igmp interface router-alert-check

```
            - router-alert-check boolean
            - ssm-translate
               - group-range start ipv4-multicast-address end ipv4-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv4-unicast-address
            - static
               - group ipv4-multicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv4-unicast-address
                  - starg
               - group-range start ipv4-multicast-address end ipv4-multicast-
address step ipv4-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - source ipv4-unicast-address
                  - starg
            - subnet-check boolean
            - version keyword
         - query-interval number
         - query-last-member-interval number
         - query-response-interval number
         - robust-count number
         - ssm-translate
            - group-range start ipv4-multicast-address end ipv4-multicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - source ipv4-unicast-address
      - ignore-nh-metric boolean
      - interface interface-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - autoconfigure
            - ipv4
               - dhcp-client
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - class-id
                     - ascii-string string
                     - hex-string hex-string
                  - client-id
                     - ascii-string string
                     - hex-string hex-string
                     - interface
                     - mac
                  - lease-time (number | keyword)
                  - request-options
                     - dns-server boolean
                     - router boolean
                     - static-route boolean
         - description very-long-description
         - dynamic-tunnel-redundant-nexthop ipv4-unicast-address
         - hold-time
            - ipv4
               - down
                  - init-only boolean
                  - seconds number
               - up
                  - seconds number
            - ipv6
               - down
```


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configure service vprn interface hold-time ipv6 down init-only

```
                  - init-only boolean
                  - seconds number
               - up
                  - seconds number
         - if-attribute
            - admin-group reference
            - srlg-group reference
         - ingress
         - ip-mtu number
         - ip-tunnel-interface boolean
         - ipsec
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - ip-exception reference
            - ipsec-tunnel named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - bfd
                  - bfd-designate boolean
                  - bfd-liveness
                     - dest-ip ipv4-unicast-address
                     - interface interface-name
                     - service-name service-name
               - clear-df-bit boolean
               - copy-traffic-class-upon-decapsulation boolean
               - description description
               - encapsulated-ip-mtu number
               - icmp-generation
                  - frag-required
                     - admin-state keyword
                     - interval number
                     - message-count number
               - icmp6-generation
                  - packet-too-big
                     - admin-state keyword
                     - interval number
                     - message-count number
               - ip-mtu number
               - key-exchange
                  - dynamic
                     - auto-establish boolean
                     - auto-establish-sustain boolean
                     - cert
                        - cert-profile reference
                        - status-verify
                           - default-result keyword
                           - primary keyword
                           - secondary keyword
                        - trust-anchor-profile reference
                     - id
                        - fqdn fully-qualified-domain-name
                        - ipv4 ipv4-unicast-address
                        - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                     - ike-policy reference
                     - ipsec-transform reference
                     - ppk
                        - id reference
                        - list reference
                     - pre-shared-key encrypted-leaf
                     - reverse-route-injection
                        - metric number
                        - preference number
```


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configure service vprn interface ipsec ipsec-tunnel key-exchange manual

```
                     - manual
                        - keys number direction keyword
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - authentication-key hex-string
                           - encryption-key hex-string
                           - ipsec-transform reference
                           - spi number
                  - local-gateway-address-override (ipv4-address-no-zone | ipv6-address-no-
zone)
                  - max-history-key-records
                     - esp number
                     - ike number
                  - pmtu-discovery-aging number
                  - private-sap number
                  - private-service service-name
                  - private-tcp-mss-adjust number
                  - propagate-pmtu-v4 boolean
                  - propagate-pmtu-v6 boolean
                  - public-tcp-mss-adjust (number | keyword)
                  - remote-gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - replay-window number
                  - security-policy
                     - id number
                     - strict-match boolean
               - ipv6-exception reference
               - public-sap number
               - tunnel-group reference
            - ipv4
               - addresses
                  - address ipv4-unicast-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - prefix-length number
               - allow-directed-broadcasts boolean
               - bfd
                  - admin-state keyword
                  - echo-receive number
                  - multiplier number
                  - receive number
                  - transmit-interval number
               - dhcp
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - gi-address ipv4-unicast-address
                  - lease-populate
                     - max-leases number
                  - option-82
                     - action keyword
                     - circuit-id
                        - ascii-tuple
                        - ifindex
                        - none
                        - sap-id
                        - vlan-ascii-tuple
                     - remote-id
                        - ascii-string string-not-all-spaces
                        - mac
                        - none
                     - vendor-specific-option
                        - client-mac-address boolean
                        - pool-name boolean
```


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```
                        - sap-id boolean
                        - service-id boolean
                        - string string-not-all-spaces
                        - system-id boolean
                  - proxy-server
                     - admin-state keyword
                     - emulated-server ipv4-unicast-address
                     - lease-time
                        - radius-override boolean
                        - value number
                  - relay-plain-bootp boolean
                  - relay-proxy
                     - release-update-src-ip boolean
                     - siaddr-override ipv4-unicast-address
                  - server ipv4-unicast-address
                  - src-ip-addr keyword
                  - trusted boolean
                  - use-arp boolean
               - icmp
                  - mask-reply boolean
                  - param-problem
                     - admin-state keyword
                     - number number
                     - seconds number
                  - redirects
                     - admin-state keyword
                     - number number
                     - seconds number
                  - ttl-expired
                     - admin-state keyword
                     - number number
                     - seconds number
                  - unreachables
                     - admin-state keyword
                     - number number
                     - seconds number
               - ip-helper-address ipv4-unicast-address
               - local-dhcp-server reference
               - nat
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - cpm-nat-policy reference
                  - cpm-spf-nat-policy reference
               - neighbor-discovery
                  - host-route
                     - populate keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - route-tag number
                  - learn-unsolicited boolean
                  - limit
                     - log-only boolean
                     - max-entries number
                     - threshold number
                  - local-proxy-arp boolean
                  - populate boolean
                  - proactive-refresh boolean
                  - proxy-arp-policy reference
                  - remote-proxy-arp boolean
                  - retry-timer number
                  - static-neighbor ipv4-address
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - mac-address mac-address
```


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configure service vprn interface ipv4 neighbor-discovery static-neighbor-unnumbered

```
                - static-neighbor-unnumbered
                   - mac-address mac-address
                - timeout number
             - primary
                - address ipv4-unicast-address
                - apply-groups reference
                - apply-groups-exclude reference
                - broadcast keyword
                - prefix-length number
                - tag (number | keyword)
             - secondary ipv4-unicast-address
                - apply-groups reference
                - apply-groups-exclude reference
                - broadcast keyword
                - igp-inhibit boolean
                - prefix-length number
                - tag (number | keyword)
             - tcp-mss number
             - unnumbered
                - ip-address ipv4-unicast-address
                - ip-int-name interface-name
             - urpf-check
                - ignore-default boolean
                - mode keyword
             - vrrp number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - authentication-key encrypted-leaf
                - backup ipv4-unicast-address
                - bfd-liveness
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - dest-ip ipv4-address
                   - interface-name interface-name
                   - service-name service-name
                - init-delay number
                - mac mac-unicast-address
                - master-int-inherit boolean
                - message-interval number
                - monitor-oper-group reference
                - ntp-reply boolean
                - oper-group reference
                - owner boolean
                - passive boolean
                - ping-reply boolean
                - policy reference
                - preempt boolean
                - priority number
                - ssh-reply boolean
                - standby-forwarding boolean
                - telnet-reply boolean
                - traceroute-reply boolean
          - ipv6
             - address ipv6-address
                - apply-groups reference
                - apply-groups-exclude reference
                - duplicate-address-detection boolean
                - eui-64 boolean
                - prefix-length number
                - primary-preference number
                - tag (number | keyword)
             - bfd
                - admin-state keyword
```


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```
                  - echo-receive number
                  - multiplier number
                  - receive number
                  - transmit-interval number
               - dhcp6
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - relay
                     - admin-state keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - description description
                     - lease-populate
                        - max-nbr-of-leases number
                        - route-populate
                           - na boolean
                           - pd
                              - exclude boolean
                           - ta boolean
                     - option
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - interface-id
                           - ascii-tuple
                           - if-index
                           - sap-id
                           - string string-not-all-spaces
                        - remote-id boolean
                     - server ipv6-address-with-zone
                     - source-address ipv6-unicast-or-linklocal-address
               - duplicate-address-detection boolean
               - forward-ipv4-packets boolean
               - icmp6
                  - packet-too-big
                     - admin-state keyword
                     - number number
                     - seconds number
                  - param-problem
                     - admin-state keyword
                     - number number
                     - seconds number
                  - redirects
                     - admin-state keyword
                     - number number
                     - seconds number
                  - time-exceeded
                     - admin-state keyword
                     - number number
                     - seconds number
                  - unreachables
                     - admin-state keyword
                     - number number
                     - seconds number
               - link-local-address
                  - address ipv6-address
                  - duplicate-address-detection boolean
               - local-dhcp-server reference
               - neighbor-discovery
                  - host-route
                     - populate keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - route-tag number
                  - learn-unsolicited keyword
```


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```
                - limit
                  - log-only boolean
                  - max-entries number
                  - threshold number
                - local-proxy-nd boolean
                - proactive-refresh keyword
                - proxy-nd-policy reference
                - reachable-time number
                - stale-time number
                - static-neighbor ipv6-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac-address mac-address
             - tcp-mss number
             - urpf-check
                - ignore-default boolean
                - mode keyword
             - vrrp number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - backup ipv6-address
                - bfd-liveness
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - interface-name interface-name
                  - service-name service-name
                - init-delay number
                - mac mac-unicast-address
                - master-int-inherit boolean
                - message-interval number
                - monitor-oper-group reference
                - ntp-reply boolean
                - oper-group reference
                - owner boolean
                - passive boolean
                - ping-reply boolean
                - policy reference
                - preempt boolean
                - priority number
                - standby-forwarding boolean
                - telnet-reply boolean
                - traceroute-reply boolean
          - load-balancing
             - ip-load-balancing keyword
          - loopback boolean
          - mac mac-unicast-address
          - mac-accounting boolean
          - monitor-oper-group reference
          - multi-chassis-shunting-profile reference
          - ptp-hw-assist
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
          - sap sap
             - accounting-policy reference
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - bandwidth number
             - collect-stats boolean
             - description long-description
             - dist-cpu-protection reference
```


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configure service vprn interface sap egress

```
            - egress
               - agg-rate
                  - queue-frame-based-accounting boolean
                  - rate number
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - policer-control-policy
                     - overrides
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - root
                           - max-rate (number | keyword)
                           - priority-mbs-thresholds
                              - min-thresh-separation (number | keyword)
                              - priority number
                                 - apply-groups reference
                                 - apply-groups-exclude reference
                                 - mbs-contribution (number | keyword)
                     - policy-name reference
                  - sap-egress
                     - overrides
                        - policer reference
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - cbs (number | keyword)
                           - mbs (number | keyword)
                           - packet-byte-offset number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                           - stat-mode keyword
                        - queue reference
                           - adaptation-rule
                              - cir keyword
                              - pir keyword
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - avg-frame-overhead decimal-number
                           - cbs (number | keyword)
                           - drop-tail
                              - low
                                 - percent-reduction-from-mbs (number | keyword)
                           - mbs (number | keyword)
                           - parent
                              - cir-weight number
                              - weight number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                     - policy-name reference
                     - port-redirect-group
                        - group-name reference
                        - instance number
                  - scheduler-policy
                     - overrides
                        - scheduler named-item
```


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configure service vprn interface sap egress qos scheduler-policy overrides scheduler apply-groups

```
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
            - ingress
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - policer-control-policy
                     - overrides
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - root
                           - max-rate (number | keyword)
                           - priority-mbs-thresholds
                              - min-thresh-separation (number | keyword)
                              - priority number
                                 - apply-groups reference
                                 - apply-groups-exclude reference
                                 - mbs-contribution (number | keyword)
                     - policy-name reference
                  - sap-ingress
                     - fp-redirect-group
                        - group-name reference
                        - instance number
                     - overrides
                        - policer reference
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - cbs (number | keyword)
                           - mbs (number | keyword)
                           - packet-byte-offset number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
                              - pir (number | keyword)
                           - stat-mode keyword
                        - queue reference
                           - adaptation-rule
                              - cir keyword
                              - pir keyword
                           - apply-groups reference
                           - apply-groups-exclude reference
                           - cbs (number | keyword)
                           - drop-tail
                              - low
                                 - percent-reduction-from-mbs (number | keyword)
                           - mbs (number | keyword)
                           - parent
                              - cir-weight number
                              - weight number
                           - percent-rate
                              - cir decimal-number
                              - pir decimal-number
                           - rate
                              - cir (number | keyword)
```


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configure service vprn interface sap ingress qos sap-ingress overrides queue rate pir

```
                        - pir (number | keyword)
                  - policy-name reference
               - scheduler-policy
                  - overrides
                     - scheduler named-item
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - parent
                           - cir-weight number
                           - weight number
                        - rate
                           - cir (number | keyword)
                           - pir (number | keyword)
                  - policy-name reference
            - ip-tunnel interface-name
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - backup-remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - clear-df-bit boolean
               - delivery-service service-name
               - description description
               - dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
               - dscp keyword
               - encapsulated-ip-mtu number
               - gre-header
                  - admin-state keyword
                  - key
                     - admin-state keyword
                     - receive number
                     - send number
               - icmp-generation
                  - frag-required
                     - admin-state keyword
                     - interval number
                     - message-count number
               - icmp6-generation
                  - packet-too-big
                     - admin-state keyword
                     - number number
                     - seconds number
               - ip-mtu number
               - ipsec-transport-mode-profile reference
               - local-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - pmtu-discovery-aging number
               - private-tcp-mss-adjust number
               - propagate-pmtu-v4 boolean
               - propagate-pmtu-v6 boolean
               - public-tcp-mss-adjust (number | keyword)
               - reassembly (number | keyword)
               - remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - ipsec-gateway named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - cert
                  - cert-profile reference
                  - status-verify
                     - default-result keyword
                     - primary keyword
                     - secondary keyword
                  - trust-anchor-profile reference
               - client-db
                  - fallback boolean
```


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configure service vprn interface sap ipsec-gateway client-db name

```
                  - name reference
               - default-secure-service
                  - interface interface-name
                  - service-name service-name
               - default-tunnel-template reference
               - dhcp-address-assignment
                  - dhcpv4
                     - admin-state keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - gi-address ipv4-unicast-address
                     - send-release boolean
                     - server
                        - address ipv4-unicast-address
                        - router-instance router-instance-base-vprn-loose
                  - dhcpv6
                     - admin-state keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - link-address ipv6-unicast-address
                     - send-release boolean
                     - server
                        - address ipv6-unicast-address
                        - router-instance router-instance-base-vprn-loose
               - ike-policy reference
               - local
                  - address-assignment
                     - admin-state keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - ipv4
                        - dhcp-server named-item
                        - pool named-item
                        - router-instance router-instance-base-vprn-loose
                        - secondary-pool named-item
                     - ipv6
                        - dhcp-server named-item
                        - pool named-item
                        - router-instance router-instance-base-vprn-loose
                  - gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - id
                     - auto
                     - fqdn fully-qualified-domain-name
                     - ipv4 ipv4-unicast-address
                     - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
               - max-history-key-records
                  - esp number
                  - ike number
               - mixed-tunnel-mode
               - pre-shared-key encrypted-leaf
               - radius
                  - accounting-policy reference
                  - authentication-policy reference
               - ts-list reference
            - ipsec-tunnel named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - bfd
                  - bfd-designate boolean
                  - bfd-liveness
                     - dest-ip ipv4-unicast-address
                     - interface interface-name
                     - service-name service-name
```


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```
                  - clear-df-bit boolean
                  - copy-traffic-class-upon-decapsulation boolean
                  - description description
                  - dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                  - encapsulated-ip-mtu number
                  - icmp-generation
                    - frag-required
                      - admin-state keyword
                      - interval number
                      - message-count number
                  - icmp6-generation
                    - packet-too-big
                      - admin-state keyword
                      - interval number
                      - message-count number
                  - ip-mtu number
                  - key-exchange
                    - dynamic
                      - auto-establish boolean
                      - auto-establish-sustain boolean
                      - cert
                        - cert-profile reference
                        - status-verify
                          - default-result keyword
                          - primary keyword
                          - secondary keyword
                        - trust-anchor-profile reference
                      - id
                        - fqdn fully-qualified-domain-name
                        - ipv4 ipv4-unicast-address
                        - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                      - ike-policy reference
                      - ipsec-transform reference
                      - ppk
                        - id reference
                        - list reference
                      - pre-shared-key encrypted-leaf
                      - reverse-route-injection
                        - metric number
                        - preference number
                    - manual
                      - keys number direction keyword
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - authentication-key hex-string
                        - encryption-key hex-string
                        - ipsec-transform reference
                        - spi number
                  - max-history-key-records
                    - esp number
                    - ike number
                  - pmtu-discovery-aging number
                  - private-tcp-mss-adjust number
                  - propagate-pmtu-v4 boolean
                  - propagate-pmtu-v6 boolean
                  - public-tcp-mss-adjust (number | keyword)
                  - replay-window number
                  - security-policy
                    - id reference
                    - strict-match boolean
                  - tunnel-endpoint
                    - delivery-service service-name
                    - local-gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
                    - remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
```


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```
            - lag
            - multi-service-site reference
         - spoke-sdp sdp-bind-id
            - accounting-policy reference
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - collect-stats boolean
            - description description
            - egress
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - network
                     - policy-name reference
                     - port-redirect-group
                        - group-name reference
                        - instance number
               - vc-label number
            - entropy-label
            - hash-label
               - signal-capability
            - ingress
               - filter
                  - ip reference
                  - ipv6 reference
               - qos
                  - network
                     - fp-redirect-group
                        - group-name reference
                        - instance number
                     - policy-name reference
               - vc-label number
            - vc-type keyword
         - static-tunnel-redundant-nexthop ipv4-unicast-address
         - tos-marking-state keyword
         - tunnel boolean
         - vas-if-type keyword
         - vpls named-item-64
            - apply-groups reference
            - apply-groups-exclude reference
            - egress
               - reclassify-using-qos reference
               - routed-override-filter
                  - ip reference
                  - ipv6 reference
            - evpn
               - arp
                  - advertise keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - interface-less-routing
                        - bgp-evpn-instance number
                     - route-tag number
                  - flood-garp-and-unknown-req boolean
                  - learn-dynamic boolean
               - nd
                  - advertise keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - interface-less-routing
                        - bgp-evpn-instance number
                     - route-tag number
```


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configure service vprn interface vpls evpn nd learn-dynamic

```
                  - learn-dynamic boolean
            - evpn-tunnel
               - allow-bfd boolean
               - ipv6-gateway-address keyword
               - supplementary-broadcast-domain boolean
            - ingress
               - routed-override-filter
                  - ip reference
                  - ipv6 reference
      - ip-mirror-interface interface-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description very-long-description
         - spoke-sdp sdp-bind-id
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - ingress
               - filter
                  - ip reference
               - vc-label number
      - ip-transport port
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - dscp-name keyword
         - filter-unknown-host boolean
         - local-host
            - ip-address ipv4-unicast-address
            - port-num number
            - protocol keyword
         - remote-host number
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - ip-address ipv4-unicast-address
            - port-num number
            - remote-host-name string
         - tcp
            - inactivity-timeout number
            - max-retries number
            - retry-interval number
      - ipsec
         - allow-reverse-route-override-type keyword
         - multi-chassis-shunt-interface reference
            - apply-groups reference
            - apply-groups-exclude reference
            - next-hop
               - address (ipv4-address-no-zone | ipv6-address-no-zone)
         - multi-chassis-shunting-profile named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - peer reference
               - apply-groups reference
               - apply-groups-exclude reference
               - multi-chassis-shunt-interface reference
         - overlapping-reverse-route boolean
         - security-policy number
            - apply-groups reference
            - apply-groups-exclude reference
            - entry number
```


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```
                - apply-groups reference
                - apply-groups-exclude reference
                - local-ip
                   - address ipv4-prefix
                   - any boolean
                - local-ipv6
                   - address ipv6-prefix
                   - any boolean
                - remote-ip
                   - address ipv4-prefix
                   - any boolean
                - remote-ipv6
                   - address ipv6-prefix
                   - any boolean
          - ipv6
             - neighbor-discovery
                - reachable-time number
                - stale-time number
             - router-advertisement
                - apply-groups reference
                - apply-groups-exclude reference
                - dns-options
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - rdnss-lifetime (keyword | number)
                   - server ipv6-address
                - interface reference
                   - admin-state keyword
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - current-hop-limit number
                   - dns-options
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - include-rdnss boolean
                      - rdnss-lifetime (number | keyword)
                      - server ipv6-address
                   - managed-configuration boolean
                   - max-advertisement-interval number
                   - min-advertisement-interval number
                   - mtu number
                   - nd-router-preference keyword
                   - other-stateful-configuration boolean
                   - prefix ipv6-prefix
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - autonomous boolean
                      - on-link boolean
                      - preferred-lifetime (keyword | number)
                      - valid-lifetime (keyword | number)
                   - reachable-time number
                   - retransmit-time number
                   - router-lifetime number
                   - use-virtual-mac boolean
          - isis number
             - additional-system-id system-id-no-default
             - admin-state keyword
             - advertise-passive-only boolean
             - advertise-router-capability keyword
             - all-l1isis mac-address
             - all-l2isis mac-address
             - apply-groups reference
             - apply-groups-exclude reference
             - area-address area-address
```


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```
            - authentication-check boolean
            - authentication-key encrypted-leaf
            - authentication-keychain reference
            - authentication-type keyword
            - csnp-authentication boolean
            - csnp-on-p2p boolean
            - default-route-tag number
            - export-limit
               - log-percent number
               - number number
            - export-policy reference
            - graceful-restart
               - helper-mode boolean
            - hello-authentication boolean
            - hello-padding keyword
            - ignore-attached-bit boolean
            - ignore-lsp-errors boolean
            - ignore-narrow-metric boolean
            - iid-tlv boolean
            - import-policy reference
            - interface interface-name
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - bfd-liveness
                  - ipv4
                     - include-bfd-tlv boolean
                  - ipv6
                     - include-bfd-tlv boolean
               - conditional-advertise-prefix reference
               - csnp-interval number
               - default-instance boolean
               - hello-authentication boolean
               - hello-authentication-key encrypted-leaf
               - hello-authentication-keychain reference
               - hello-authentication-type keyword
               - hello-padding keyword
               - interface-type keyword
               - ipv4-multicast boolean
               - ipv6-unicast boolean
               - level keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - hello-authentication-key encrypted-leaf
                  - hello-authentication-keychain reference
                  - hello-authentication-type keyword
                  - hello-interval number
                  - hello-multiplier number
                  - hello-padding keyword
                  - ipv4-multicast-metric number
                  - ipv6-unicast-metric number
                  - metric number
                  - passive boolean
                  - priority number
                  - sd-offset number
                  - sf-offset number
               - level-capability keyword
               - load-balancing-weight number
               - loopfree-alternate
                  - exclude boolean
                  - policy-map
                     - route-nh-template reference
               - lsp-pacing-interval number
               - mesh-group
```


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```
                  - blocked
                  - value number
               - passive boolean
               - retransmit-interval number
               - tag number
            - ipv4-multicast-routing keyword
            - ipv4-routing boolean
            - ipv6-routing keyword
            - level keyword
               - advertise-router-capability boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-key encrypted-leaf
               - authentication-keychain reference
               - authentication-type keyword
               - csnp-authentication boolean
               - default-ipv4-multicast-metric number
               - default-ipv6-unicast-metric number
               - default-metric number
               - external-preference number
               - hello-authentication boolean
               - hello-padding keyword
               - loopfree-alternate-exclude boolean
               - lsp-mtu-size number
               - preference number
               - psnp-authentication boolean
               - wide-metrics-only boolean
            - level-capability keyword
            - link-group named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - description very-long-description
               - level keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - ipv4-multicast-metric-offset number
                  - ipv4-unicast-metric-offset number
                  - ipv6-unicast-metric-offset number
                  - member reference
                  - oper-members number
                  - revert-members number
            - loopfree-alternate
               - exclude
                  - prefix-policy reference
            - lsp-lifetime number
            - lsp-minimum-remaining-lifetime number
            - lsp-mtu-size number
            - lsp-refresh
               - half-lifetime boolean
               - interval number
            - multi-part-tlv
               - apply-groups reference
               - apply-groups-exclude reference
               - neighbor boolean
               - srlg boolean
            - multi-topology
               - ipv4-multicast boolean
               - ipv6-unicast boolean
            - multicast-import
               - ipv4 boolean
            - overload
               - max-metric boolean
            - overload-export-external boolean
            - overload-export-interlevel boolean
```


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configure service vprn isis overload-fib-error-notify-only

```
            - overload-fib-error-notify-only
               - retry number
            - overload-on-boot
               - max-metric boolean
               - timeout number
            - poi-tlv boolean
            - prefix-attributes-tlv boolean
            - prefix-limit
               - limit number
               - log-only boolean
               - overload-timeout (number | keyword)
               - warning-threshold number
            - psnp-authentication boolean
            - reference-bandwidth number
            - rib-priority
               - high
                  - prefix-list reference
                  - tag number
            - router-id router-id
            - standard-multi-instance boolean
            - strict-adjacency-check boolean
            - summary-address (ipv4-prefix | ipv6-prefix)
               - apply-groups reference
               - apply-groups-exclude reference
               - level-capability keyword
               - route-tag number
            - suppress-attached-bit boolean
            - system-id system-id
            - timers
               - lsp-wait
                  - lsp-initial-wait number
                  - lsp-max-wait number
                  - lsp-second-wait number
               - spf-wait
                  - spf-initial-wait number
                  - spf-max-wait number
                  - spf-second-wait number
            - unicast-import
               - ipv4 boolean
               - ipv6 boolean
         - label-mode keyword
         - local-routes-domain-id domain-id
         - log
            - apply-groups reference
            - apply-groups-exclude reference
            - filter log-filter-name
               - apply-groups reference
               - apply-groups-exclude reference
               - default-action keyword
               - description description
               - named-entry log-filter-entry-name
                  - action keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - match
                     - application
                        - eq keyword
                        - neq keyword
                     - event
                        - eq number
                        - gt number
                        - gte number
                        - lt number
```


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configure service vprn log filter named-entry match event lte

```
                        - lte number
                        - neq number
                     - message
                        - eq string
                        - neq string
                        - regexp boolean
                     - severity
                        - eq keyword
                        - gt keyword
                        - gte keyword
                        - lt keyword
                        - lte keyword
                        - neq keyword
                     - subject
                        - eq named-item
                        - neq named-item
                        - regexp boolean
            - log-id li-log-name
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - destination
                  - netconf
                     - max-entries number
                  - snmp
                     - max-entries number
                  - syslog reference
               - filter reference
               - netconf-stream named-item
               - source
                  - change boolean
                  - debug boolean
                  - main boolean
                  - security boolean
               - time-format keyword
            - snmp-trap-group svc-vprn-snmp-trap-group-name
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - trap-target string
                  - address (ipv4-address-no-zone | ipv6-address-no-zone)
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - notify-community string
                  - port number
                  - replay boolean
                  - security-level keyword
                  - version keyword
            - syslog log-vprn-syslog-name
               - address (ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-
domain-name)
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - facility keyword
               - hostname
                  - use-system-name
                  - use-vprn-name
                  - value named-item-255
               - log-prefix (keyword | string)
               - port number
               - severity keyword
```


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```
                - timestamp-format keyword
                - tls-client-profile reference
            - management
                - allow-ftp boolean
                - allow-grpc boolean
                - allow-netconf boolean
                - allow-ssh boolean
                - allow-telnet boolean
                - allow-telnet6 boolean
                - apply-groups reference
                - apply-groups-exclude reference
            - maximum-ipv4-routes
                - log-only boolean
                - threshold number
                - value number
            - maximum-ipv6-routes
                - log-only boolean
                - threshold number
                - value number
            - mc-maximum-routes
                - log-only boolean
                - threshold number
                - value number
            - mld
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - group-if-query-source-address ipv6-unicast-or-linklocal-address
                - interface interface-name
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - import-policy reference
                    - maximum-number-group-sources number
                    - maximum-number-groups number
                    - maximum-number-sources number
                    - query-interval number
                    - query-last-member-interval number
                    - query-response-interval number
                    - router-alert-check boolean
                    - ssm-translate
                        - group-range start ipv6-multicast-address end ipv6-multicast-address
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - source ipv6-unicast-address
                    - static
                        - group ipv6-multicast-address
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - source ipv6-unicast-address
                            - starg
                        - group-range start ipv6-multicast-address end ipv6-multicast-
address step ipv6-address
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - source ipv6-unicast-address
                            - starg
                    - version keyword
                - query-interval number
                - query-last-member-interval number
                - query-response-interval number
                - robust-count number
                - ssm-translate
                    - group-range start ipv6-multicast-address end ipv6-multicast-address
```


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```
                - apply-groups reference
                - apply-groups-exclude reference
                - source ipv6-unicast-address
          - mss-adjust
             - apply-groups reference
             - apply-groups-exclude reference
             - nat-group number
             - segment-size number
          - nat
             - apply-groups reference
             - apply-groups-exclude reference
             - inside
                - large-scale
                   - nat-policy reference
                   - nat44
                      - destination-prefix ipv4-unicast-prefix
                         - apply-groups reference
                         - apply-groups-exclude reference
                         - nat-policy reference
                      - deterministic
                         - address-map ipv4-address to ipv4-address nat-policy reference
                            - admin-state keyword
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - outside-range ipv4-address
                         - prefix-map ipv4-unicast-prefix nat-policy reference
                            - admin-state keyword
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - map ipv4-address to ipv4-address
                               - apply-groups reference
                               - apply-groups-exclude reference
                               - first-outside-address ipv4-address
                      - max-subscriber-limit number
             - outside
                - filters
                   - downstream
                      - ipv4 reference
                   - upstream
                      - ipv4 reference
                - mtu number
                - pool named-item
                   - address-range ipv4-unicast-address end ipv4-unicast-address
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - description description
                      - drain boolean
                   - admin-state keyword
                   - applications
                      - agnostic boolean
                      - use-interface-ip boolean
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - description description
                   - icmp-echo-reply boolean
                   - large-scale
                      - subscriber-limit number
                      - use-interface-ip
                         - cpm-reserved-ports number
                         - use-well-known-ports boolean
                   - mode keyword
                   - nat-group reference
                   - port-forwarding
                      - dynamic-block-reservation boolean
```


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configure service vprn nat outside pool port-forwarding range-end

```
                  - range-end number
               - port-reservation
                  - port-blocks number
                  - ports number
               - type keyword
               - watermarks
                  - high number
                  - low number
      - network
         - apply-groups reference
         - apply-groups-exclude reference
         - ingress
            - filter
               - ip reference
               - ipv6 reference
            - qos
               - fp-redirect-group reference
               - instance number
               - network-policy reference
            - urpf-check boolean
      - network-interface interface-name
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - description very-long-description
         - dist-cpu-protection reference
         - egress
            - filter
               - ip reference
         - hold-time
            - ipv4
               - down
                  - init-only boolean
                  - seconds number
               - up
                  - seconds number
         - ingress
            - filter
               - ip reference
         - ip-mtu number
         - ipv4
            - allow-directed-broadcasts boolean
            - bfd
               - admin-state keyword
               - echo-receive number
               - multiplier number
               - receive number
               - transmit-interval number
            - icmp
               - mask-reply boolean
               - param-problem
                  - admin-state keyword
                  - number number
                  - seconds number
               - redirects
                  - admin-state keyword
                  - number number
                  - seconds number
               - ttl-expired
                  - admin-state keyword
                  - number number
                  - seconds number
               - unreachables
                  - admin-state keyword
```


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configure service vprn network-interface ipv4 icmp unreachables number

```
                  - number number
                  - seconds number
            - neighbor-discovery
               - retry-timer number
               - static-neighbor ipv4-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mac-address mac-address
               - timeout number
            - primary
               - address ipv4-unicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - broadcast keyword
               - prefix-length number
            - secondary ipv4-unicast-address
               - apply-groups reference
               - apply-groups-exclude reference
               - broadcast keyword
               - igp-inhibit boolean
               - prefix-length number
            - tcp-mss number
            - urpf-check
               - ignore-default boolean
               - mode keyword
         - lag
         - load-balancing
            - ip-load-balancing keyword
            - lsr-load-balancing keyword
         - loopback
         - mac mac-unicast-address
         - port port-and-encap
         - qos
            - apply-groups reference
            - apply-groups-exclude reference
            - egress-instance number
            - egress-port-redirect-group reference
            - ingress-fp-redirect-group reference
            - ingress-instance number
            - network-policy reference
         - tos-marking-state keyword
      - ntp
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - authenticate boolean
         - authentication-check boolean
         - authentication-key number
            - apply-groups reference
            - apply-groups-exclude reference
            - key encrypted-leaf
            - type keyword
         - authentication-keychain reference
         - broadcast reference
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication-keychain reference
            - key-id reference
            - ttl number
            - version number
      - ospf number
         - admin-state keyword
         - advertise-router-capability keyword
         - apply-groups reference
```


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```
            - apply-groups-exclude reference
            - area ipv4-address
               - advertise-ne-profile reference
               - advertise-router-capability boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - area-range ipv4-unicast-prefix
                  - advertise boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
               - blackhole-aggregate boolean
               - export-policy reference
               - import-policy reference
               - interface interface-name
                  - admin-state keyword
                  - advertise-router-capability boolean
                  - advertise-subnet boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication-key encrypted-leaf
                  - authentication-keychain reference
                  - authentication-type keyword
                  - bfd-liveness
                     - remain-down-on-failure boolean
                     - strict boolean
                     - strict-mode-holddown number
                  - conditional-advertise-prefix reference
                  - dead-interval number
                  - hello-interval number
                  - interface-type keyword
                  - load-balancing-weight number
                  - loopfree-alternate
                     - exclude boolean
                     - policy-map
                        - route-nh-template reference
                  - lsa-filter-out keyword
                  - message-digest-key number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - md5 encrypted-leaf
                  - metric number
                  - mtu number
                  - neighbor ipv4-unicast-address
                  - passive boolean
                  - poll-interval number
                  - priority number
                  - retransmit-interval number
                  - rib-priority keyword
                  - transit-delay number
               - loopfree-alternate-exclude boolean
               - nssa
                  - area-range ipv4-unicast-prefix
                     - advertise boolean
                     - apply-groups reference
                     - apply-groups-exclude reference
                  - originate-default-route
                     - adjacency-check boolean
                     - type-nssa boolean
                  - redistribute-external boolean
                  - summaries boolean
               - sham-link interface-name ip-address ipv4-unicast-address
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
```


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```
                - authentication-key encrypted-leaf
                - authentication-keychain reference
                - authentication-type keyword
                - dead-interval number
                - hello-interval number
                - message-digest-key number
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - md5 encrypted-leaf
                - metric number
                - retransmit-interval number
                - transit-delay number
             - stub
                - default-metric number
                - summaries boolean
             - virtual-link ipv4-address transit-area reference
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - authentication-key encrypted-leaf
                - authentication-keychain reference
                - authentication-type keyword
                - dead-interval number
                - hello-interval number
                - message-digest-key number
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - md5 encrypted-leaf
                - retransmit-interval number
                - transit-delay number
          - compatible-rfc1583 boolean
          - export-limit
             - log-percent number
             - number number
          - export-policy reference
          - external-db-overflow
             - interval number
             - limit number
          - external-preference number
          - graceful-restart
             - helper-mode boolean
             - helper-resync-timeout number
             - protocol
                - lls-restart-signaling boolean
                - standard boolean
             - strict-lsa-checking boolean
          - ignore-dn-bit boolean
          - import-policy reference
          - loopfree-alternate
             - exclude
                - prefix-policy reference
          - multicast-import boolean
          - overload boolean
          - overload-include-ext-1 boolean
          - overload-include-ext-2 boolean
          - overload-include-stub boolean
          - overload-on-boot
             - timeout number
          - preference number
          - reference-bandwidth number
          - rib-priority
             - high
                - prefix-list reference
          - router-id router-id
```


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```
            - rtr-adv-lsa-limit
               - log-only boolean
               - max-lsa-count number
               - overload-timeout (number | keyword)
               - warning-threshold number
            - super-backbone boolean
            - suppress-dn-bit boolean
            - timers
               - incremental-spf-wait number
               - lsa-accumulate number
               - lsa-arrival number
               - lsa-generate
                  - lsa-initial-wait number
                  - lsa-second-wait number
                  - max-lsa-wait number
               - redistribute-delay number
               - spf-wait
                  - spf-initial-wait number
                  - spf-max-wait number
                  - spf-second-wait number
            - unicast-import boolean
            - vpn-domain
               - id system-id
               - type keyword
            - vpn-tag number
         - ospf3 number
            - admin-state keyword
            - advertise-router-capability keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - area ipv4-address
               - advertise-router-capability boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - area-range (ipv4-prefix | ipv6-prefix)
                  - advertise boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
               - blackhole-aggregate boolean
               - export-policy reference
               - import-policy reference
               - interface interface-name
                  - admin-state keyword
                  - advertise-router-capability boolean
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication
                     - inbound reference
                     - outbound reference
                  - bfd-liveness
                     - remain-down-on-failure boolean
                     - strict boolean
                     - strict-mode-holddown number
                  - conditional-advertise-prefix reference
                  - dead-interval number
                  - hello-interval number
                  - interface-type keyword
                  - load-balancing-weight number
                  - loopfree-alternate
                     - exclude boolean
                     - policy-map
                        - route-nh-template reference
                  - lsa-filter-out keyword
                  - metric number
```


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```
                  - mtu number
                  - neighbor (ipv4-address-no-zone | ipv6-address-no-zone)
                  - passive boolean
                  - poll-interval number
                  - priority number
                  - retransmit-interval number
                  - rib-priority keyword
                  - transit-delay number
               - key-rollover-interval number
               - loopfree-alternate-exclude boolean
               - nssa
                  - area-range (ipv4-prefix | ipv6-prefix)
                     - advertise boolean
                     - apply-groups reference
                     - apply-groups-exclude reference
                  - originate-default-route
                     - adjacency-check boolean
                     - type-nssa boolean
                  - redistribute-external boolean
                  - summaries boolean
               - stub
                  - default-metric number
                  - summaries boolean
               - virtual-link ipv4-address transit-area reference
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication
                     - inbound reference
                     - outbound reference
                  - dead-interval number
                  - hello-interval number
                  - retransmit-interval number
                  - transit-delay number
            - export-limit
               - log-percent number
               - number number
            - export-policy reference
            - external-db-overflow
               - interval number
               - limit number
            - external-preference number
            - graceful-restart
               - helper-mode boolean
               - strict-lsa-checking boolean
            - ignore-dn-bit boolean
            - import-policy reference
            - loopfree-alternate
               - exclude
                  - prefix-policy reference
            - multicast-import boolean
            - overload boolean
            - overload-include-ext-1 boolean
            - overload-include-ext-2 boolean
            - overload-include-stub boolean
            - overload-on-boot
               - timeout number
            - preference number
            - reference-bandwidth number
            - rib-priority
               - high
                  - prefix-list reference
            - router-id router-id
            - rtr-adv-lsa-limit
```


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```
            - log-only boolean
            - max-lsa-count number
            - overload-timeout (number | keyword)
            - warning-threshold number
         - suppress-dn-bit boolean
         - timers
            - incremental-spf-wait number
            - lsa-accumulate number
            - lsa-arrival number
            - lsa-generate
               - lsa-initial-wait number
               - lsa-second-wait number
               - max-lsa-wait number
            - redistribute-delay number
            - spf-wait
               - spf-initial-wait number
               - spf-max-wait number
               - spf-second-wait number
         - unicast-import boolean
      - pim
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - apply-to keyword
         - bgp-nh-override boolean
         - import
            - join-policy reference
            - register-policy reference
         - interface interface-name
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - assert-period number
            - bfd-liveness
               - ipv4 boolean
               - ipv6 boolean
            - bsm-check-rtr-alert boolean
            - hello-interval number
            - hello-multiplier number
            - improved-assert boolean
            - instant-prune-echo boolean
            - ipv4
               - apply-groups reference
               - apply-groups-exclude reference
               - monitor-oper-group
                  - name reference
                  - operation keyword
                  - priority-delta number
               - multicast boolean
            - ipv6
               - apply-groups reference
               - apply-groups-exclude reference
               - monitor-oper-group
                  - name reference
                  - operation keyword
                  - priority-delta number
               - multicast boolean
            - max-groups number
            - multicast-senders keyword
            - priority number
            - sticky-dr
               - priority number
            - three-way-hello boolean
            - tracking-support boolean
```


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```
            – ipv4
               – admin-state keyword
               – rpf-table keyword
               – source-address
                  – register-message ipv4-unicast-address
               – ssm-assert-compatible-mode boolean
               – ssm-default-range boolean
            – ipv6
               – admin-state keyword
               – rpf-table keyword
               – source-address
                  – register-message ipv6-unicast-address
               – ssm-default-range boolean
            – mtu-over-head number
            – non-dr-attract-traffic boolean
            – rp
               – bootstrap
                  – export reference
                  – import reference
               – ipv4
                  – anycast ipv4-unicast-address rp-set-peer ipv4-unicast-address
                  – auto-rp-discovery boolean
                  – bsr-candidate
                     – address ipv4-unicast-address
                     – admin-state keyword
                     – hash-mask-len number
                     – priority number
                  – candidate boolean
                  – mapping-agent boolean
                  – rp-candidate
                     – address ipv4-unicast-address
                     – admin-state keyword
                     – group-range ipv4-multicast-prefix
                     – holdtime number
                     – priority number
                  – static
                     – address ipv4-unicast-address
                        – apply-groups reference
                        – apply-groups-exclude reference
                        – group-prefix ipv4-multicast-prefix
                        – override boolean
               – ipv6
                  – anycast ipv6-unicast-address rp-set-peer ipv6-unicast-address
                  – bsr-candidate
                     – address ipv6-unicast-address
                     – admin-state keyword
                     – hash-mask-len number
                     – priority number
                  – embedded-rp
                     – admin-state keyword
                     – group-range ipv6-multicast-prefix
                  – rp-candidate
                     – address ipv6-unicast-address
                     – admin-state keyword
                     – group-range ipv6-multicast-prefix
                     – holdtime number
                     – priority number
                  – static
                     – address ipv6-unicast-address
                        – apply-groups reference
                        – apply-groups-exclude reference
                        – group-prefix ipv6-multicast-prefix
                        – override boolean
            – spt-switchover (ipv4-prefix | ipv6-prefix)
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - threshold (number | keyword)
         - ssm-groups
            - group-range (ipv4-prefix | ipv6-prefix)
      - radius
         - apply-groups reference
         - apply-groups-exclude reference
         - server named-item
            - accept-coa boolean
            - acct-port number
            - address (ipv4-address-no-zone | ipv6-address-no-zone)
            - apply-groups reference
            - apply-groups-exclude reference
            - auth-port number
            - description description
            - insert-message-authenticator boolean
            - pending-requests-limit number
            - require-message-authenticator boolean
            - secret encrypted-leaf
      - rip
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - authentication-key encrypted-leaf
         - authentication-type keyword
         - bfd-liveness boolean
         - check-zero boolean
         - description description
         - export-limit
            - log-percent number
            - number number
         - export-policy reference
         - group named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication-key encrypted-leaf
            - authentication-type keyword
            - bfd-liveness boolean
            - check-zero boolean
            - description description
            - export-policy reference
            - import-policy reference
            - message-size number
            - metric-in number
            - metric-out number
            - neighbor interface-name
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-key encrypted-leaf
               - authentication-type keyword
               - bfd-liveness boolean
               - check-zero boolean
               - description description
               - export-policy reference
               - import-policy reference
               - message-size number
               - metric-in number
               - metric-out number
               - preference number
               - receive keyword
               - send keyword
```


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```
                - split-horizon boolean
                - timers
                  - flush number
                  - timeout number
                  - update number
                - unicast-address ipv4-unicast-address
             - preference number
             - receive keyword
             - send keyword
             - split-horizon boolean
             - timers
                - flush number
                - timeout number
                - update number
          - import-policy reference
          - message-size number
          - metric-in number
          - metric-out number
          - preference number
          - propagate-metric boolean
          - receive keyword
          - send keyword
          - split-horizon boolean
          - timers
             - flush number
             - timeout number
             - update number
       - ripng
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - bfd-liveness boolean
          - check-zero boolean
          - description description
          - export-limit
             - log-percent number
             - number number
          - export-policy reference
          - group named-item
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - bfd-liveness boolean
             - check-zero boolean
             - description description
             - export-policy reference
             - import-policy reference
             - message-size number
             - metric-in number
             - metric-out number
             - neighbor reference
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - bfd-liveness boolean
                - check-zero boolean
                - description description
                - export-policy reference
                - import-policy reference
                - message-size number
                - metric-in number
                - metric-out number
                - preference number
                - receive keyword
```


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configure service vprn ripng group neighbor send

```
                - send keyword
                - split-horizon boolean
                - timers
                   - flush number
                   - timeout number
                   - update number
                - unicast-address ipv6-unicast-address
             - preference number
             - receive keyword
             - send keyword
             - split-horizon boolean
             - timers
                - flush number
                - timeout number
                - update number
          - import-policy reference
          - message-size number
          - metric-in number
          - metric-out number
          - preference number
          - receive keyword
          - send keyword
          - split-horizon boolean
          - timers
             - flush number
             - timeout number
             - update number
       - router-id router-id
       - service-id number
       - sfm-overload
          - holdoff-time number
       - sgt-qos
          - dot1p
             - application keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - dot1p (keyword | number)
          - dscp
             - application keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - dscp (keyword | number)
             - dscp-map keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - fc keyword
       - snmp
          - access boolean
          - community encrypted-leaf
             - access-permissions keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - source-access-list reference
             - version keyword
       - source-address
          - ipv4 keyword
             - address ipv4-address
             - apply-groups reference
             - apply-groups-exclude reference
             - interface-name interface-name
          - ipv6 keyword
             - address ipv6-address
             - apply-groups reference
             - apply-groups-exclude reference
```


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```
        - spoke-sdp sdp-bind-id
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
        - static-routes
            - apply-groups reference
            - apply-groups-exclude reference
            - hold-down
                - initial number
                - max-value number
                - multiplier number
            - route (ipv4-prefix | ipv6-prefix) route-type keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - blackhole
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - community community
                    - description description-allow-all-white-spaces
                    - generate-icmp boolean
                    - metric number
                    - preference number
                    - prefix-list
                        - flag keyword
                        - name reference
                        - router-instance string
                    - tag number
                - community community
                - dhcp-next-hop interface-name
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - community community
                    - description description-allow-all-white-spaces
                    - metric number
                    - preference number
                    - tag number
                - grt
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - description description-allow-all-white-spaces
                    - metric number
                    - preference number
                - indirect (ipv4-address-no-zone | ipv6-address-no-zone)
                    - admin-state keyword
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - community community
                    - cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
                        - apply-groups reference
                        - apply-groups-exclude reference
                        - drop-count number
                        - interval number
                        - log boolean
                        - padding-size number
                    - description description-allow-all-white-spaces
                    - metric number
                    - preference number
                    - prefix-list
                        - flag keyword
                        - name reference
                        - router-instance string
```


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```
                - tag number
            - interface interface-name
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - community community
                - cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - drop-count number
                    - interval number
                    - log boolean
                    - padding-size number
                - description description-allow-all-white-spaces
                - load-balancing-weight number
                - metric number
                - preference number
                - prefix-list
                    - flag keyword
                    - name reference
                    - router-instance string
                - tag number
            - ipsec-tunnel named-item
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - community community
                - description description-allow-all-white-spaces
                - metric number
                - preference number
                - tag number
            - next-hop (ipv4-address-with-zone | ipv6-address-with-zone)
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - bfd-liveness boolean
                - community community
                - cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - drop-count number
                    - interval number
                    - log boolean
                    - padding-size number
                - description description-allow-all-white-spaces
                - load-balancing-weight number
                - metric number
                - preference number
                - prefix-list
                    - flag keyword
                    - name reference
                    - router-instance string
                - tag number
                - validate-next-hop boolean
            - tag number
        - ttl-propagate
            - local keyword
            - transit keyword
        - twamp-light
            - apply-groups reference
            - apply-groups-exclude reference
            - reflector
                - admin-state keyword
                - allow-ipv6-udp-checksum-zero boolean
```


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configure service vprn twamp-light reflector apply-groups

```
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - prefix (ipv4-prefix | ipv6-prefix)
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
            - type keyword
            - udp-port number
      - vprn-type keyword
      - weighted-ecmp keyword
```


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4.27.1 service command descriptions

service

Synopsis	Enter the **service** context
Context	**configure** service
Tree	service
Introduced	25.3.R2
Platforms	SAR Gen 2

cpipe [service-name] *service-name*

Synopsis	Enter the **cpipe** list instance
Context	**configure** service cpipe *service-name*
Tree	cpipe
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** service cpipe *service-name*
Tree	cpipe
Description	This command creates or edits a service instance. When a service is created, the **customer** keyword and *customer-id* must be specified and associates the service with a customer. The *customer-id* must already exist having been created using the customer command in the service context. When a service is created with a customer association, it is not possible to edit the customer association. The service must be deleted and re-created with a new customer association. When a service is created, the use of the **customer***customer-id* is optional to navigate into the service configuration context. If attempting to edit a service with the incorrect *customer-id* results in an error. This command specifies the unique service identification number identifying the service in the service domain. This ID must be unique to this service and may not be used for any other service of any type. The service ID must be the same number used for every platform on which this service is defined.
String length	1 to 64

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String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the service
Context	**configure** service cpipe *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

customer *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service customer ID
Context	**configure** service cpipe *service-name* customer *reference*
Tree	customer
Reference	**configure** service customer *customer-name*
Notes	This element is mandatory.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Text description
Context	**configure** service cpipe *service-name* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

endpoint [name] *named-item*

Synopsis	Enter the **endpoint** list instance
Context	**configure** service cpipe *service-name* endpoint *named-item*
Tree	endpoint
Max. instances	2
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**name**] *named-item*

Synopsis	Service endpoint name
Context	**configure** service cpipe *service-name* endpoint *named-item*
Tree	endpoint
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

active-multipath *boolean*

Synopsis	Active multi-path protection status
Context	**configure** service cpipe *service-name* endpoint *named-item* active-multipath *boolean*
Tree	active-multipath
Default	false
Introduced	26.7.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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active-multipath-timeout *number*

Synopsis	Active Multipath timeout
Context	**configure** service cpipe *service-name* endpoint *named-item* active-multipath-timeout *number*
Tree	active-multipath-timeout
Range	1 to 60
Units	seconds
Introduced	26.7.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Text description
Context	**configure** service cpipe *service-name* endpoint *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hold-time-active *number*

Synopsis	Time before entering standby when MC-LAG SAP goes down
Context	**configure** service cpipe *service-name* endpoint *named-item* hold-time-active *number*
Tree	hold-time-active
Range	1 to 60
Units	deciseconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

revert-time *(number | keyword)*

Synopsis	Time to wait before reverting to primary spoke SDP
Context	**configure** service cpipe *service-name* endpoint *named-item* revert-time *(number | keyword)*

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Tree	revert-time
Range	1 to 600
Units	seconds
Options	never, immediate
Default	immediate
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

standby-signaling *keyword*

Synopsis	Status of whether PW standby bit is sent to T-LDP peer
Context	**configure** service cpipe *service-name* endpoint *named-item* standby-signaling *keyword*
Tree	standby-signaling
Description	This command configures whether the pseudowire standby bit (value 0x00000020) is sent to the T-LDP peer for each spoke-SDP of the endpoint that is selected as a standby. This command is mutually exclusive with the **vc-switching** command.
Options	master, slave
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

network-latency-measurement *boolean*

Synopsis	Enable/disable network latency measurement
Context	**configure** service cpipe *service-name* network-latency-measurement *boolean*
Tree	network-latency-measurement
Default	false
Introduced	26.7.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** service cpipe *service-name* sap *sap*
Tree	sap

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**sap-id**] *sap*

Synopsis	SAP ID
Context	**configure** service cpipe *service-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** service cpipe *service-name* sap *sap* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the SAP
Context	**configure** service cpipe *service-name* sap *sap* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

cem

Synopsis	Enter the **cem** context

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Context	**configure** service cpipe *service-name* sap *sap* cem
Tree	cem
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

asym-delay-control

Synopsis	Enable the **asym-delay-control** context
Context	**configure** service cpipe *service-name* sap *sap* cem asym-delay-control
Tree	asym-delay-control
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

min-repeat *number*

Synopsis	Interval at which the ADC function will repeat after the service is up
Context	**configure** service cpipe *service-name* sap *sap* cem asym-delay-control min-repeat *number*
Tree	min-repeat
Range	0 to 1440
Units	minutes
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

samples *number*

Synopsis	Sample size in thousands
Context	**configure** service cpipe *service-name* sap *sap* cem asym-delay-control samples *number*
Tree	samples
Range	1 | 2 | 4 | 8 | 16 | 32
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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threshold-repeat *number*

Synopsis	Threshold to determine if an octet correction is made after an ADC repeat or on-demand ADC analysis in 125 microseconds increments
Context	**configure** service cpipe *service-name* sap *sap* cem asym-delay-control threshold-repeat *number*
Tree	threshold-repeat
Range	125 to 4000
Units	microseconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

packet

Synopsis	Enter the **packet** context
Context	**configure** service cpipe *service-name* sap *sap* cem packet
Tree	packet
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

jitter-buffer *number*

Synopsis	Jitter buffer size
Context	**configure** service cpipe *service-name* sap *sap* cem packet jitter-buffer *number*
Tree	jitter-buffer
Range	1 to 250
Units	milliseconds
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

payload-size *number*

Synopsis	Size of payload packets transmitted to PSN by CEM SAP
Context	**configure** service cpipe *service-name* sap *sap* cem packet payload-size *number*
Tree	payload-size
Range	2 to 1514

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Units	bytes
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

report-alarm

Synopsis	Enter the **report-alarm** context
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm
Tree	report-alarm
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

buffer-overrun *boolean*

Synopsis	Report alarm for buffer overrun
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm buffer-overrun *boolean*
Tree	buffer-overrun
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

buffer-underrun *boolean*

Synopsis	Report alarm for buffer underrun
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm buffer-underrun *boolean*
Tree	buffer-underrun
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

malformed-packets *boolean*

Synopsis	Report alarm for malformed packets
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm malformed-packets *boolean*

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Tree	malformed-packets
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

packet-loss *boolean*

Synopsis	Report remote peer is currently in packet loss status
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm packet-loss *boolean*
Tree	packet-loss
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-fault *boolean*

Synopsis	Report remote TDM interface is currently not in service
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm remote-fault *boolean*
Tree	remote-fault
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-packet-loss *boolean*

Synopsis	Report remote peer is currently in packet loss status
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm remote-packet-loss *boolean*
Tree	remote-packet-loss
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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remote-rdi *boolean*

Synopsis	Report remote TDM interface is currently in RDI status
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm remote-rdi *boolean*
Tree	remote-rdi
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

stray-packets *boolean*

Synopsis	Report alarm for stray packets
Context	**configure** service cpipe *service-name* sap *sap* cem report-alarm stray-packets *boolean*
Tree	stray-packets
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

collect-stats *boolean*

Synopsis	Collect accounting statistics
Context	**configure** service cpipe *service-name* sap *sap* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *long-description*

Synopsis	Text description
Context	**configure** service cpipe *service-name* sap *sap* description *long-description*
Tree	description
String length	1 to 160
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

endpoint *reference*

Synopsis	Endpoint name
Context	**configure** service cpipe *service-name* sap *sap* endpoint *reference*
Tree	endpoint
Reference	**configure** service cpipe *service-name* endpoint *named-item*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service cpipe *service-name* sap *sap* ingress
Tree	ingress
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

qos

Synopsis	Enter the **qos** context
Context	**configure** service cpipe *service-name* sap *sap* ingress qos
Tree	qos
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

sap-ingress

Synopsis	Enter the **sap-ingress** context
Context	**configure** service cpipe *service-name* sap *sap* ingress qos sap-ingress
Tree	sap-ingress
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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overrides

Synopsis	Enter the **overrides** context
Context	**configure** service cpipe *service-name* sap *sap* ingress qos sap-ingress overrides
Tree	overrides
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

policy-name *reference*

Synopsis	Policy ID
Context	**configure** service cpipe *service-name* sap *sap* ingress qos sap-ingress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-ingress *qos-policy-name*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

lag

Synopsis	Enter the **lag** context
Context	**configure** service cpipe *service-name* sap *sap* lag
Tree	lag
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

service-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** service cpipe *service-name* service-id *number*
Tree	service-id
Range	1 to 2147483647

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

service-mtu *number*

Synopsis	MTU size
Context	**configure** service cpipe *service-name* service-mtu *number*
Tree	service-mtu
Range	1 to 9194
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	enable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

bandwidth *(number | keyword)*

Synopsis	Bandwidth that is reserved for this SDP binding
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* bandwidth *(number | keyword)*
Tree	bandwidth
Range	0 to 100000000
Units	kilobps
Options	max
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

control-word *boolean*

Synopsis	Use control word as part of packet encapsulation
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* control-word *boolean*
Tree	control-word
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Text description
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

egress

Synopsis	Enter the **egress** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

qos

Synopsis	Enter the **qos** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress qos
Tree	qos
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

network

Synopsis	Enter the **network** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress qos network
Tree	network
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

group-name *reference*

Synopsis	Name of the egress port queue group
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

instance *number*

Synopsis	Queue-group instance ID
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

vc-label *number*

WARNING:
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Synopsis	Egress MPLS VC label to send packets to the far end
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

endpoint

Synopsis	Enter the **endpoint** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* endpoint
Tree	endpoint
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

name *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Endpoint name to which SDP bind is attached
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* endpoint name *reference*
Tree	name
Reference	**configure** service cpipe *service-name* endpoint *named-item*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

precedence *(number | keyword)*

Synopsis	Precedence when multiple SDP binds are on one endpoint
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* endpoint precedence *(number | keyword)*
Tree	precedence
Range	1 to 4
Options	primary

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Default	4
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

qos

Synopsis	Enter the **qos** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress qos
Tree	qos
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

network

Synopsis	Enter the **network** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network
Tree	network
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

group-name *reference*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

instance *number*

Synopsis	Instance of FP ingress queue group for the SDP binding
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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vc-label *number*

WARNING:
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Synopsis	Ingress MPLS VC label to send packets to the far end
Context	**configure** service cpipe *service-name* spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

test *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate as a test service
Context	**configure** service cpipe *service-name* test *boolean*
Tree	test
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

vc-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Circuit emulation service type signalled to the peer
Context	**configure** service cpipe *service-name* vc-type *keyword*
Tree	vc-type
Options	satop-e1, satop-t1, cesopsn, cesopsn-cas
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

customer [customer-name] *customer-name*

Synopsis	Enter the **customer** list instance
Context	**configure** service customer *customer-name*
Tree	customer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**customer-name**] *customer-name*

Synopsis	Customer name for a service
Context	**configure** service customer *customer-name*
Tree	customer
String length	1 to 64
String format	'customer-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

contact *description*

Synopsis	Service customer contact information
Context	**configure** service customer *customer-name* contact *description*
Tree	contact
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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customer-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Customer ID
Context	**configure** service customer *customer-name* customer-id *number*
Tree	customer-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service customer *customer-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-service-site [multi-service-site-name] *named-item*

Synopsis	Enter the **multi-service-site** list instance
Context	**configure** service customer *customer-name* multi-service-site *named-item*
Tree	multi-service-site
Introduced	25.3.R2
Platforms	SAR Gen 2

[**multi-service-site-name**] *named-item*

Synopsis	Customer site name
Context	**configure** service customer *customer-name* multi-service-site *named-item*
Tree	multi-service-site

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

assignment

Synopsis	Enter the **assignment** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* assignment
Tree	assignment
Introduced	25.3.R2
Platforms	SAR Gen 2

card *number*

Synopsis	Multi-service-site assignment to the card slot
Context	**configure** service customer *customer-name* multi-service-site *named-item* assignment card *number*
Tree	card
Range	1 to 20
Notes	The following elements are part of a choice: **card**, **fpe**, or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *port-named*

Synopsis	Multi-service-site assignment to the port
Context	**configure** service customer *customer-name* multi-service-site *named-item* assignment port *port-named*
Tree	port
Notes	The following elements are part of a choice: **card**, **fpe**, or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service customer *customer-name* multi-service-site *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

agg-rate

Synopsis	Enter the **agg-rate** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress agg-rate
Tree	agg-rate
Introduced	25.3.R2
Platforms	SAR Gen 2

limit-unused-bandwidth *boolean*

Synopsis	Enable aggregate rate overrun protection
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress agg-rate limit-unused-bandwidth *boolean*
Tree	limit-unused-bandwidth
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

queue-frame-based-accounting *boolean*

Synopsis	Enable frame based accounting for policers and queues
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress agg-rate queue-frame-based-accounting *boolean*
Tree	queue-frame-based-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *number*

Synopsis	Rate limit
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress agg-rate rate *number*
Tree	rate
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy *reference*

Synopsis	Policer control policy
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress policer-control-policy *reference*
Tree	policer-control-policy
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context

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Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context will not change. If the scheduler name does not exist in this or another

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tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name.

If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context does not change.

String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2

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Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the scheduler
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the scheduler
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service customer *customer-name* multi-service-site *named-item* egress scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy *reference*

Synopsis	Policer control policy
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress policer-control-policy *reference*
Tree	policer-control-policy
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

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overrides

Synopsis	Enter the **overrides** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item*
Tree	scheduler
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item* parent
Tree	parent

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Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR for the scheduler
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*

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Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR for the scheduler
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service customer *customer-name* multi-service-site *named-item* ingress scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

phone *description*

Synopsis	Service customer telephone number information
Context	**configure** service customer *customer-name* phone *description*
Tree	phone
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

epipe [service-name] *service-name*

Synopsis	Enter the **epipe** list instance
Context	**configure** service epipe *service-name*
Tree	epipe
Description	Commands in this context configure an Epipe service instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** service epipe *service-name*
Tree	epipe
Description	This command creates or edits a service instance. When a service is created, the **customer** keyword and *customer-id* must be specified and associates the service with a customer. The *customer-id* must already exist having been created using the customer command in the service context. When a service is created with a customer association, it is not possible to edit the customer association. The service must be deleted and re-created with a new customer association. When a service is created, the use of the **customer***customer-id* is optional to navigate into the service configuration context. If attempting to edit a service with the incorrect *customer-id* results in an error. This command specifies the unique service identification number identifying the service in the service domain. This ID must be unique to this service and may not be used for any other service of any type. The service ID must be the same number used for every platform on which this service is defined.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the service
Context	**configure** service epipe *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp [bgp-instance] *number*

Synopsis	Enter the **bgp** list instance
Context	**configure** service epipe *service-name* bgp *number*
Tree	bgp
Description	Commands in this context configure the BGP related options that BGP uses for multihoming and BGP VPWS.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bgp-instance**] *number*

Synopsis	BGP instance
Context	**configure** service epipe *service-name* bgp *number*
Tree	bgp
Range	1 to 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-service-mtu *number*

Synopsis	Advertised service MTU value
Context	**configure** service epipe *service-name* bgp *number* adv-service-mtu *number*
Tree	adv-service-mtu

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Description	This command configures the MTU signaled value used in the BGP for the service. When configured, the router uses the value for signaling and for validation with the received MTU instead of the service MTU. However, the value does not affect the locally enforced value, which is still based on the service MTU.
Range	0 to 9782
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-template-binding [pw-template-name] *reference*

Synopsis	Enter the **pw-template-binding** list instance
Context	**configure** service epipe *service-name* bgp *number* pw-template-binding *reference*
Tree	pw-template-binding
Max. instances	100
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pw-template-name**] *reference*

Synopsis	Policy name
Context	**configure** service epipe *service-name* bgp *number* pw-template-binding *reference*
Tree	pw-template-binding
Reference	**configure** service pw-template *pw-template-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Endpoint name associated with the BGP PW template
Context	**configure** service epipe *service-name* bgp *number* pw-template-binding *reference* endpoint *reference*

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Tree	endpoint
Description	This command specifies the endpoint name associated with the BGP PW template. When an endpoint is associated to the PW template binding of a BGP VPWS service, EVPN MPLS can also be configured and associated to the same endpoint in the same Epipe service.
Reference	**configure** service epipe *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

import-rt *route-target*

Synopsis	Import route-target communities
Context	**configure** service epipe *service-name* bgp *number* pw-template-binding *reference* import-rt *route-target*
Tree	import-rt
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

route-distinguisher *(keyword | vpn-route-distinguisher)*

Synopsis	RD component for NLRI for L2VPN and EVPN families
Context	**configure** service epipe *service-name* bgp *number* route-distinguisher *(keyword | vpn-route-distinguisher)*
Tree	route-distinguisher
Options	auto-rd
String format	'vpn-route-distinguisher' must be IP:comm or AS-number pair per RD rules
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target

Synopsis	Enter the **route-target** context

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Context	**configure** service epipe *service-name* bgp *number* route-target
Tree	route-target
Introduced	25.3.R2
Platforms	SAR Gen 2

export *route-target*

Synopsis	Extended community name for default import policy
Context	**configure** service epipe *service-name* bgp *number* route-target export *route-target*
Tree	export
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Introduced	25.3.R2
Platforms	SAR Gen 2

import *route-target*

Synopsis	Extended community name for default import policy
Context	**configure** service epipe *service-name* bgp *number* route-target import *route-target*
Tree	import
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Introduced	25.3.R2
Platforms	SAR Gen 2

vsi-export *reference*

Synopsis	VSI export policies
Context	**configure** service epipe *service-name* bgp *number* vsi-export *reference*
Tree	vsi-export
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

vsi-import *reference*

Synopsis	VSI import policies
Context	**configure** service epipe *service-name* bgp *number* vsi-import *reference*
Tree	vsi-import
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-evpn

Synopsis	Enable the **bgp-evpn** context
Context	**configure** service epipe *service-name* bgp-evpn
Tree	bgp-evpn
Description	Commands in this context configure the BGP-EVPN options.
Introduced	25.3.R2
Platforms	SAR Gen 2

evi *number*

Synopsis	EVPN ID
Context	**configure** service epipe *service-name* bgp-evpn evi *number*
Tree	evi
Description	This command configures an EVPN instance (EVI) unique in the system. It is used for the service-carving algorithm for multi-homing and auto-deriving route target and route distinguishers. The following options are supported: If this EVPN identifier is not specified, the value is zero and no route distinguisher or route target is automatically derived from it.If the specified EVPN identifier is lower than 65535 and no other route distinguisher or route target is configured in the service, the following applies:

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- the route distinguisher is derived from <system_ip>:evi
- the route target is derived from <autonomous-system>:evi

If the specified EVPN identifier is higher than 65535 and no other route distinguisher or route target is configured in the service, the following applies.

- The route distinguisher cannot be automatically derived. An error is generated if enabling EVPN is attempted without a route distinguisher. A manual or an **auto-rd** route distinguisher must be configured.
- The route target can only be automatically derived if the **evi-three-byte-auto-rt** command is configured. If configured, the route target is automatically derived in accordance with the rules described in RFC8365.

Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mtu-mismatch *boolean*

Synopsis	Bgp-Evpn ignore MTU mismatch.
Context	**configure** service epipe *service-name* bgp-evpn ignore-mtu-mismatch *boolean*
Tree	ignore-mtu-mismatch
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

local-attachment-circuit [name] *named-item*

Synopsis	Enter the **local-attachment-circuit** list instance
Context	**configure** service epipe *service-name* bgp-evpn local-attachment-circuit *named-item*
Tree	local-attachment-circuit
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Attachment circuit name
Context	**configure** service epipe *service-name* bgp-evpn local-attachment-circuit *named-item*

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Tree	local-attachment-circuit
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	BGP instance ID
Context	**configure** service epipe *service-name* bgp-evpn local-attachment-circuit *named-item* bgp *number*
Tree	bgp
Range	1 to 2
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Endpoint name
Context	**configure** service epipe *service-name* bgp-evpn local-attachment-circuit *named-item* endpoint *reference*
Tree	endpoint
Reference	**configure** service epipe *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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eth-tag *number*

Synopsis	Ethernet tag of the attachment circuit
Context	**configure** service epipe *service-name* bgp-evpn local-attachment-circuit *named-item* eth-tag *number*
Tree	eth-tag
Description	This command configures the Ethernet tag value of the attachment circuit. When configured in the local attachment circuit context, the tag value is used in the advertised AD per-EVI route sent for the attachment circuit. When configured in the remote attachment circuit context, the value is compared with the Ethernet tag value of the imported D per-EVI routes for the service. When there is a match, the system creates an EVPN destination for the Epipe.
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls [bgp-instance] *number*

Synopsis	Enter the **mpls** list instance
Context	**configure** service epipe *service-name* bgp-evpn mpls *number*
Tree	mpls
Description	Commands in this context configure the BGP-EVPN MPLS options.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bgp-instance**] *number*

Synopsis	BGP instance
Context	**configure** service epipe *service-name* bgp-evpn mpls *number*
Tree	mpls
Range	1 to 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of BGP EVPN MPLS
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-bind-tunnel

Synopsis	Enter the **auto-bind-tunnel** context
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel
Tree	auto-bind-tunnel
Description	Commands in this context configure automatic binding of a VPRN service using tunnels to MP-BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-flex-algo-fallback *boolean*

Synopsis	Enable flexible algorithm fallback
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel allow-flex-algo-fallback *boolean*
Tree	allow-flex-algo-fallback
Description	When configured to **true**, a BGP router with a Flex-Algorithm action configured (via the **configure policy-options policy-statement entry action flex-algo** command) can resolve to a tunnel with algorithm 0 if no target Flex-Algorithm tunnel is available**.** When configured to **false**, the BGP router can resolve only to the intended Flex-Algorithm tunnel, which may cause traffic loss if no corresponding Flex-Algorithm tunnel is available.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ecmp *number*

Synopsis	Maximum ECMP routes information
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel ecmp *number*
Tree	ecmp
Range	1 to 32
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-strict-tunnel-tagging *boolean*

Synopsis	Enable/disable enforcement of strict tunnel tagging
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel enforce-strict-tunnel-tagging *boolean*
Tree	enforce-strict-tunnel-tagging
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-untagged-route *keyword*

Synopsis	Untagged route type enforcement
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel enforce-untagged-route *keyword*
Tree	enforce-untagged-route
Description	This command configures the enforcement of BGP routes with no administrative tag policy applied by modifying the next-hop resolution behavior for autobind services.
Options	none – Untagged routes can bind to tagged or untagged LSPs untagged-tunnel – Untagged routes only bind to LSPs without an admin tag
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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resolution *keyword*

Synopsis	Resolution method for tunnel selection
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution *keyword*
Tree	resolution
Options	none, filter, any
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *boolean*

Synopsis	Use BGP tunneling for next-hop resolution
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter bgp *boolean*
Tree	bgp
Description	When configured to **true**, BGP searches the BGP LSP for the address of the BGP next hop. When configured to **false**, BGP tunneling is not used and inter-area or inter-as prefixes are not resolved.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ldp *boolean*

Synopsis	Use LDP tunneling for next-hop resolution
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter ldp *boolean*
Tree	ldp
Description	When configured to **true**, BGP searches for an LDP LSP with a FEC prefix corresponding to the address of the BGP next hop. When configured to **false**, LDP tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter rsvp *boolean*
Tree	rsvp
Description	When configured to **true**, BGP searches the best metric RSVP LSP to determine the address of the BGP next hop. This address can correspond to the system interface or to another loopback interface used by the BGP instance on the remote node. The LSP metric is provided by MPLS in the tunnel table. In the case of multiple RSVP LSPs with the same lowest metric, BGP selects the LSP with the lowest tunnel ID. When configured to **false**, the RSVP LSP is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis *boolean*

Synopsis	Use IS-IS SR tunneling for next-hop resolution
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-isis *boolean*
Tree	sr-isis
Description	When configured to **true**, BGP uses an IS-IS tunnel type to resolve the BGP next hop. When the **sr-isis** command is enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

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- Select the SR tunnel submitted by the IS-IS instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, IS-IS tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-ospf *boolean*

Synopsis Use OSPF SR tunneling for next-hop resolution

Context **configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-ospf *boolean*

Tree sr-ospf

Description When configured to **true**, BGP uses an OSPF tunnel type to resolve the BGP next hop.

When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the OSPF instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, OSPF tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-ospf3 *boolean*

Synopsis Use OSPFv3 SR tunneling for next-hop resolution

Context **configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-ospf3 *boolean*

Tree sr-ospf3

Description When configured to **true**, BGP uses an OSPF3 tunnel type to resolve the BGP next hop.

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When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the OSPFv3 instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, OSPF3 tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-policy *boolean*

Synopsis Use SR policies for next-hop resolution

Context **configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-policy *boolean*

Tree sr-policy

Description When configured to **true**, this command enables the use of SR policies to resolve the next hop of BGP-EVPN service routes.

This command configures BGP to search for an SR policy with:

- a non-null endpoint that matches the next hop of the service route, and
- a color value that matches the highest numbered color for the extended community attached to the service route

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-te *boolean*

Synopsis Use SR-TE tunneling for next-hop resolution

Context **configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-te *boolean*

Tree sr-te

Description When configured to **true**, BGP uses an SR-TE tunnel type to resolve the BGP next hop.

In the case of multiple SR-TE tunnels with the same lowest metric, BGP selects the tunnel with the lowest tunnel ID.

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When configured to **false**, SR-TE tunneling is not used for next-hop resolution.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Allow weighted load balancing
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* auto-bind-tunnel weighted-ecmp *boolean*
Tree	weighted-ecmp
Description	When configured to **true**, this router enables weighted ECMP for packets using tunnels that a VPLS or Epipe automatically binds to. Packets are sprayed across LSPs in the ECMP according to the outcome of the hash algorithm and the configured load balancing weight of each LSP. When configured to **false**, this command disables weighted ECMP for next-hop tunnel selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable support for control word
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* control-word *boolean*
Tree	control-word
Description	When configured to **true**, the router enables the transmission and reception of the control word for all EVPN-MPLS destinations at the same time.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-route-tag *one-byte-value*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Default route tag
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* default-route-tag *one-byte-value*
Tree	default-route-tag
Description	This command configures a route tag that is used when sending a route to the BGP application (for the corresponding service and BGP instance). If the corresponding BGP instance is enabled, the command cannot be changed. When used for BGP EVPN contexts, only one route tag can be passed to BGP for matching on export policies. In case of a conflict with other route tags pushed by EVPN, the default route tag has the least priority.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-id *domain-id*

Synopsis	Domain ID of received BGP route before readvertisement
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* domain-id *domain-id*
Tree	domain-id
Description	This command specifies the domain ID. The domain ID identifies the network from which the BGP route was received before the RTM advertises it to a different neighbor. The domain ID is part of a domain, represented as domain-id:isf_safi_type in the D-PATH attribute, as described in *draft-ietf-bess-evpn-ipvpn-interworking*. Gateway routers modify the D-PATH attribute. A gateway is a PE where a VPRN is instantiated. The VPRN in this case advertises or receives routes from multiple BGP owners (for example, EVPN-IFL and BGP-IPVPN) or multiple instances of the same owner (for example, VPRN with two BGP-IPVPN instances). Gateways use the D-PATH attribute to detect loops (for received routes where the D-PATH contains a local domain ID) and to make BGP best-path selection decisions based on the D-PATH length (shorter D-PATH is preferred). In the following example, suppose a gateway receives prefix P in an EVPN-IFL instance with the following D-PATH from neighbor N: Seg Len=1 / 65000:1:128 If the router imports the route in VPRN-1, BGP-EVPN SRv6 instance with domain 65000:2, it readvertises it to its BGP-IPVPN MPLS instance as follows: Seg Len=2 / 65000:2:70 / 65000:1:128

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That is, the gateway prepends the local domain ID and family to the D-PATH before readvertising the route into a different instance.

The command is also supported in Epipe services with two instances. As in the case of multi-instance VPRN services, the configured domain ID in an Epipe instance is prepended to the AD per EVI route redistributed to the other instance.

String format 'domain-id' must be global-field:local-field (uint32:uint16 range)

Introduced 25.3.R2

Platforms SAR Gen 2

dynamic-egress-label-limit *boolean*

Synopsis Enables dynamic egress label limit

Context **configure** service epipe *service-name* bgp-evpn mpls *number* dynamic-egress-label-limit *boolean*

Tree dynamic-egress-label-limit

Description When configured to **true**, this command relaxes the egress MPLS label limit check when resolving BGP next hops in the tunnel table.

For VPRN services, the OAM label is never computed and, therefore, one more egress label is allowed.

For EVPN (Epipe and VPLS) services, the system only computes the control word and ESI label if they are used. For the control word, the system reduces the egress label limit by one label if the control word is configured in the service. When configured, the ESI label is not counted for Epipes or VPLS services without an ES.

When configured to **false** this command, for EVPN, Epipe, and VPLS services, always accounts for the ESI label and control word.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

entropy-label *boolean*

Synopsis Enable use of entropy-labels

Context **configure** service epipe *service-name* bgp-evpn mpls *number* entropy-label *boolean*

Tree entropy-label

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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evi-three-byte-auto-rt *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Auto-derive the BGP EVPN route target
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* evi-three-byte-auto-rt *boolean*
Tree	evi-three-byte-auto-rt
Description	When configured to **true**, the BGP-EVPN instance import and export route target is auto-derived as described in RFC 8365 (Global-Administrator:A/Type/D-ID/Service-ID). Where: • Global Administrator – is the configured 2-octet AS number; if the configured ASN exceeds the 2 byte limit, the low order 16-bit value is taken • A=0 (for auto-derivation) • Type=4 (EVI-based route-target) • D-ID= [1..2] – encodes the BGP instance, which allows the auto-derivation of different route-targets in multi-instance services; the value is inherited from the corresponding BGP instance • Service ID=3-octet EVI When configured to **false**, route target derivation is not allowed.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

force-vc-forwarding *keyword*

Synopsis	VC forwarding action
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* force-vc-forwarding *keyword*
Tree	force-vc-forwarding
Options	vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced	25.3.R2
Platforms	SAR Gen 2

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mh-mode *keyword*

Synopsis	Multihoming mode
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* mh-mode *keyword*
Tree	mh-mode
Description	This command configures each BGP-EVPN instance in a multi-instance Epipe service to behave as network or access. You can only configure one network instance for the service. If the service has a provider tunnel enabled, it requires a network instance.
Options	access, network
Default	network
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group identifier
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

route-next-hop

Synopsis	Enter the **route-next-hop** context
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* route-next-hop
Tree	route-next-hop
Description	Commands in this context configure the next hop of the EVPN routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IP address of the next-hop for the service EVPN route
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* route-next-hop ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **ip-address**, **system-ipv4**, or **system-ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

system-ipv4

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System IPv4 address for service EVPN route next hop
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* route-next-hop system-ipv4
Tree	system-ipv4
Notes	The following elements are part of a choice: **ip-address**, **system-ipv4**, or **system-ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

system-ipv6

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System IPv6 address for service EVPN route next hop
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* route-next-hop system-ipv6
Tree	system-ipv6

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Notes	The following elements are part of a choice: **ip-address**, **system-ipv4**, or **system-ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

send-tunnel-encap

Synopsis	Enter the **send-tunnel-encap** context
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* send-tunnel-encap
Tree	send-tunnel-encap
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable MPLS encapsulation
Context	**configure** service epipe *service-name* bgp-evpn mpls *number* send-tunnel-encap mpls *boolean*
Tree	mpls
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-attachment-circuit [name] *named-item*

Synopsis	Enter the **remote-attachment-circuit** list instance
Context	**configure** service epipe *service-name* bgp-evpn remote-attachment-circuit *named-item*
Tree	remote-attachment-circuit
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	Attachment circuit name
Context	**configure** service epipe *service-name* bgp-evpn remote-attachment-circuit *named-item*
Tree	remote-attachment-circuit
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	BGP instance ID
Context	**configure** service epipe *service-name* bgp-evpn remote-attachment-circuit *named-item* bgp *number*
Tree	bgp
Range	1 to 2
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Endpoint name
Context	**configure** service epipe *service-name* bgp-evpn remote-attachment-circuit *named-item* endpoint *reference*
Tree	endpoint
Reference	**configure** service epipe *service-name* endpoint *named-item*

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Introduced	25.3.R2
Platforms	SAR Gen 2

eth-tag *number*

Synopsis	Ethernet tag of the attachment circuit
Context	**configure** service epipe *service-name* bgp-evpn remote-attachment-circuit *named-item* eth-tag *number*
Tree	eth-tag
Description	This command configures the Ethernet tag value of the attachment circuit. When configured in the local attachment circuit context, the tag value is used in the advertised AD per-EVI route sent for the attachment circuit. When configured in the remote attachment circuit context, the value is compared with the Ethernet tag value of the imported D per-EVI routes for the service. When there is a match, the system creates an EVPN destination for the Epipe.
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-mh-site [site-name] *named-item*

Synopsis	Enter the **bgp-mh-site** list instance
Context	**configure** service epipe *service-name* bgp-mh-site *named-item*
Tree	bgp-mh-site
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**site-name**] *named-item*

Synopsis	Name for the specific site
Context	**configure** service epipe *service-name* bgp-mh-site *named-item*
Tree	bgp-mh-site
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

activation-timer *number*

Synopsis	Time to wait for BGP updates from remote PEs
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* activation-timer *number*
Tree	activation-timer
Range	0 to 100
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the site
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

boot-timer *number*

Synopsis	Wait time after reboot to run the DF election algorithm
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* boot-timer *number*
Tree	boot-timer
Range	0 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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id *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Site ID for the service
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* id *number*
Tree	id
Description	This command configures the ID for the site. The ID must match between services but is local to the service.
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

min-down-timer *number*

Synopsis	Minimum down time when site goes operationally down
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* min-down-timer *number*
Tree	min-down-timer
Range	0 to 100
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Preference to advertise in NLRI L2 extended community
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* preference *number*
Tree	preference
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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sap *sap*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	SAP to be associated with this site
Context	**configure** service epipe *service-name* bgp-mh-site *named-item* sap *sap*
Tree	sap
String length	1 to 45
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-vpws

Synopsis	Enable the **bgp-vpws** context
Context	**configure** service epipe *service-name* bgp-vpws
Tree	bgp-vpws
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the VPWS edge instance
Context	**configure** service epipe *service-name* bgp-vpws admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

local-ve

Synopsis	Enter the **local-ve** context
Context	**configure** service epipe *service-name* bgp-vpws local-ve
Tree	local-ve

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Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

WARNING:
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Synopsis	Local VPWS edge ID
Context	**configure** service epipe *service-name* bgp-vpws local-ve id *number*
Tree	id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

name *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local VPWS instance name
Context	**configure** service epipe *service-name* bgp-vpws local-ve name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-ve [name] *named-item*

Synopsis	Enter the **remote-ve** list instance
Context	**configure** service epipe *service-name* bgp-vpws remote-ve *named-item*
Tree	remote-ve
Max. instances	2

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Remote PE name to which a PW is to be signaled
Context	**configure** service epipe *service-name* bgp-vpws remote-ve *named-item*
Tree	remote-ve
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

Synopsis	Remote VPWS edge ID
Context	**configure** service epipe *service-name* bgp-vpws remote-ve *named-item* id *number*
Tree	id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

customer *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service customer ID
Context	**configure** service epipe *service-name* customer *reference*
Tree	customer
Reference	**configure** service customer *customer-name*
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service epipe *service-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint [name] *named-item*

Synopsis	Enter the **endpoint** list instance
Context	**configure** service epipe *service-name* endpoint *named-item*
Tree	endpoint
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Service endpoint name
Context	**configure** service epipe *service-name* endpoint *named-item*
Tree	endpoint
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service epipe *service-name* endpoint *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time-active *number*

Synopsis	Time before entering standby when MC-LAG SAP goes down
Context	**configure** service epipe *service-name* endpoint *named-item* hold-time-active *number*
Tree	hold-time-active
Range	1 to 60
Units	deciseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-time *(number | keyword)*

Synopsis	Time to wait before reverting to primary spoke SDP
Context	**configure** service epipe *service-name* endpoint *named-item* revert-time *(number | keyword)*
Tree	revert-time
Range	1 to 600
Units	seconds
Options	never, immediate
Default	immediate
Introduced	25.3.R2
Platforms	SAR Gen 2

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standby-signaling *keyword*

Synopsis	Endpoint behavior to handle the PW standby bit
Context	**configure** service epipe *service-name* endpoint *named-item* standby-signaling *keyword*
Tree	standby-signaling
Options	master, slave
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-l2vpn-mtu-mismatch *boolean*

Synopsis	Ignore the L2 VPN MTU mismatch with local service MTU
Context	**configure** service epipe *service-name* ignore-l2vpn-mtu-mismatch *boolean*
Tree	ignore-l2vpn-mtu-mismatch
Description	When configured to **true**, the router does not check the value of the Layer 2 MTU in the Layer2 Info Extended Community received in a BGP update message against the local service MTU or locally signaled MTU. It may, therefore, bring up the BGP VPWS service regardless of any MTU mismatch. When configured to **false**, an MTU mismatch prevents the system from bringing up a BGP-VPWS service.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing

Synopsis	Enter the **load-balancing** context
Context	**configure** service epipe *service-name* load-balancing
Tree	load-balancing
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Oper-group name
Context	**configure** service epipe *service-name* oper-group *reference*

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Tree	oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** service epipe *service-name* sap *sap*
Tree	sap
Description	Commands in this context configure a SAP within a service. A SAP is a combination of port and encapsulation parameters which identifies the SAP on the interface and within the device. Each SAP must be unique. All SAPs must be explicitly created. If no SAPs are created within a service or on an IP interface, a SAP does not exist on that object. A SAP can only be associated with a single service. A SAP can only be defined on a port that has been configured as an access port.
Max. instances	255
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	**configure** service epipe *service-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** service epipe *service-name* sap *sap* accounting-policy *reference*

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Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SAP
Context	**configure** service epipe *service-name* sap *sap* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	SAP bandwidth
Context	**configure** service epipe *service-name* sap *sap* bandwidth *number*
Tree	bandwidth
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting statistics
Context	**configure** service epipe *service-name* sap *sap* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *long-description*

Synopsis	Text description
Context	**configure** service epipe *service-name* sap *sap* description *long-description*
Tree	description
String length	1 to 160
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection *reference*

Synopsis	Distributed CPU protection policy for SAP
Context	**configure** service epipe *service-name* sap *sap* dist-cpu-protection *reference*
Tree	dist-cpu-protection
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service epipe *service-name* sap *sap* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

agg-rate

Synopsis	Enter the **agg-rate** context
Context	**configure** service epipe *service-name* sap *sap* egress agg-rate
Tree	agg-rate
Notes	The following elements are part of a choice: **agg-rate** or **percent-agg-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-frame-based-accounting *boolean*

Synopsis	Enable frame based accounting on policers and queues
Context	**configure** service epipe *service-name* sap *sap* egress agg-rate queue-frame-based-accounting *boolean*
Tree	queue-frame-based-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *number*

Synopsis	Enforced aggregate rate for all queues
Context	**configure** service epipe *service-name* sap *sap* egress agg-rate rate *number*
Tree	rate
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service epipe *service-name* sap *sap* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service epipe *service-name* sap *sap* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service epipe *service-name* sap *sap* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service epipe *service-name* sap *sap* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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root

Synopsis	Enter the **root** context
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216

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Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2

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Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service epipe *service-name* sap *sap* egress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-egress

Synopsis	Enter the **sap-egress** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress
Tree	sap-egress
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir

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Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-egress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context

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Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-frame-overhead *decimal-number*

Synopsis	Average packet-to-frame encapsulation overhead
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* avg-frame-overhead *decimal-number*
Tree	avg-frame-overhead
Description	This command configures overrides for the average frame overhead. The overrides supersede the average frame overhead configuration under the queue. For a full description of this command, see the **configure qos network-queue queue avg-frame-overhead** and **configure qos sap-egress queue avg-frame-overhead** contexts.

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Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

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percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group

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Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate

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Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID to associate with SAP for mirrored service
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the queue group redirect list policy
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of port queue group
Context	**configure** service epipe *service-name* sap *sap* egress qos sap-egress port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name. If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*

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Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service epipe *service-name* sap *sap* egress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the endpoint
Context	**configure** service epipe *service-name* sap *sap* endpoint *reference*
Tree	endpoint
Reference	**configure** service epipe *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** service epipe *service-name* sap *sap* eth-cfm
Tree	eth-cfm
Description	Commands in this context configure ETH-CFM options for Epipe SAPs.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Description	Commands in this context configure an 802.1ag Maintenance Endpoint (MEP) instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep

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Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ais

Synopsis	Enable the **ais** context
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais
Tree	ais
Description	Commands in this context enable the reception of AIS messages.
Introduced	25.3.R2

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Platforms	SAR Gen 2

client-meg-level *number*

Synopsis	Client MEG level for AIS message generation
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais client-meg-level *number*
Tree	client-meg-level
Description	This command configures the client Maintenance Entity Group (MEG) level to use for AIS message generation. One restriction is that the client MEG level must be higher than the local MEG level. Only the lowest client MEG level is used for facility MEPs.
Range	1 to 7
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-support *boolean*

Synopsis	Enable generation of AIS PDUs based on endpoint state
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interface-support *boolean*
Tree	interface-support
Description	When configured to **true**, the system enables the generation of AIS PDUs based on the associated endpoint state. AIS on operationally down MEPs triggers and clears based on the operational status of the entity it is configured on. If CCM is configured to **true**, transmission of the AIS PDU is based on either the nonoperational state of the entity or on any CCM defect conditions. AIS generation ceases if both the operational state is up and CCM has no defect conditions. If the MEP is not enabled with CCM, the operational state of the entity is the only consideration, assuming the command is present for the MEP. When configured to **false**, the generation of AIS PDUs is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

Synopsis	Transmission interval for AIS messages
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interval *number*
Tree	interval
Range	1 | 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def – Generate AIS frame for any defect in CCM state machine mac-rem-err-xcon – Generate AIS frame for def-mac-status defect or higher
Default	all-def
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the AIS messages generated by the node
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

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alarm-notification

Synopsis	Enter the **alarm-notification** context
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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ccm *boolean*

Synopsis	Generate CCM messages
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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direction *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Direction the MEP faces
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* direction *keyword*
Tree	direction
Description	This command configures the direction in which the MEP faces on the bridge port.
Options	down – Send ETH-CFM messages toward the MAC relay entity up – Send ETH-CFM messages away from the MAC relay entity
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors

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Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros
Introduced	25.3.R2

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Platforms	SAR Gen 2

fault-propagation *keyword*

Synopsis	Fault propagation for the MEP
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* fault-propagation *keyword*
Tree	fault-propagation
Options	use-if-status-tlv – Use the interface TLV suspend-ccm – Suspend continuity check messages
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

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one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** service epipe *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

ethernet

Synopsis	Enter the **ethernet** context
Context	**configure** service epipe *service-name* sap *sap* ethernet
Tree	ethernet
Introduced	25.3.R2
Platforms	SAR Gen 2

llf

Synopsis	Enter the **llf** context
Context	**configure** service epipe *service-name* sap *sap* ethernet llf
Tree	llf
Description	Commands in this context enable Link Loss Forwarding (LLF) on an Ethernet port. This feature provides an end-to-end OAM fault notification for Ethernet VLL service. It brings down the Ethernet port (Ethernet LLF) or sends a SONET/SDH Path AIS (ATM LLF) toward the attached CE when there is a local fault on the pseudowire or service, or a remote fault on the SAP or pseudowire, signaled with label withdrawal or T-LDP status bits. It ceases when the fault disappears. The Ethernet port must be configured for null encapsulation. This feature is also supported in Epipes with BGP-EVPN enabled. In this case, after removal of the EVPN destination, the port transitions to an operationally down state, however the AD per-EVI route for the SAP is still advertised (the SAP remains operationally up). The port transitions to the operationally up state when the EVPN destination is created.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Link Loss Forwarding
Context	**configure** service epipe *service-name* sap *sap* ethernet llf admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-oper-down *boolean*

Synopsis	Ignore operational down state of the SAP on SAP failure
Context	**configure** service epipe *service-name* sap *sap* ignore-oper-down *boolean*
Tree	ignore-oper-down
Description	When configured to **true**, the Epipe service does not transition to the operational down state when the SAP fails. This command can only be set to **true** for a single SAP in an Epipe. The command can be used in Epipes with or without EVPN enabled. When configured to **false**, the Epipe service transitions to the operational down state when SAP fails.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service epipe *service-name* sap *sap* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter

Synopsis	Enter the **filter** context
Context	**configure** service epipe *service-name* sap *sap* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service epipe *service-name* sap *sap* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service epipe *service-name* sap *sap* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

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policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority

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Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service epipe *service-name* sap *sap* ingress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-ingress

Synopsis	Enter the **sap-ingress** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress
Tree	sap-ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

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fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Queue group template name created on forwarding plane
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Queue group instance
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-ingress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS

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Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00

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Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Policer unique ID

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Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

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cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs

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Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

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weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir

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Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID
Context	**configure** service epipe *service-name* sap *sap* ingress qos sap-ingress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-ingress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name. If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*

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Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service epipe *service-name* sap *sap* ingress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

qtag-manipulation

Synopsis	Enter the **qtag-manipulation** context
Context	**configure** service epipe *service-name* sap *sap* ingress qtag-manipulation
Tree	qtag-manipulation
Description	Commands in this context configure ingress VLAN translation.
Introduced	25.3.R2
Platforms	SAR Gen 2

c-tag *(number | keyword)*

Synopsis	Inner C-tag value for ingress QinQ VLAN translation
Context	**configure** service epipe *service-name* sap *sap* ingress qtag-manipulation c-tag *(number | keyword)*

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Tree	c-tag
Range	0 to 4094
Options	tag-*
Notes	The following elements are part of a choice: **push-dot1q-vlan** or (**c-tag** and **s-tag**).
Introduced	25.3.R2
Platforms	SAR Gen 2

push-dot1q-vlan *(number | keyword)*

Synopsis	VLAN translation information
Context	**configure** service epipe *service-name* sap *sap* ingress qtag-manipulation push-dot1q-vlan *(number | keyword)*
Tree	push-dot1q-vlan
Description	This command configures the router to overwrite the preserved VLAN ID with the configured value during VLAN translation. Configuring an explicit VLAN ID is supported only on dot1q encapsulated ports, and copying the outer VLAN ID to the inner position is supported only on QinQ encapsulated ports.
Range	0 to 4094
Options	use-sap-svlan – Copy the outer VLAN ID to inner position
Notes	The following elements are part of a choice: **push-dot1q-vlan** or (**c-tag** and **s-tag**).
Introduced	25.3.R2
Platforms	SAR Gen 2

s-tag *number*

Synopsis	Outer S-tag value for ingress QinQ VLAN translation
Context	**configure** service epipe *service-name* sap *sap* ingress qtag-manipulation s-tag *number*
Tree	s-tag
Range	0 to 4094
Notes	The following elements are part of a choice: **push-dot1q-vlan** or (**c-tag** and **s-tag**).
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Enter the **lag** context

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Context	**configure** service epipe *service-name* sap *sap* lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ring

Synopsis	Enable the **mc-ring** context
Context	**configure** service epipe *service-name* sap *sap* mc-ring
Tree	mc-ring
Introduced	25.3.R2
Platforms	SAR Gen 2

ring-node *named-item*

Synopsis	Name for the ring node associated with this SAP
Context	**configure** service epipe *service-name* sap *sap* mc-ring ring-node *named-item*
Tree	ring-node
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Monitor operational group
Context	**configure** service epipe *service-name* sap *sap* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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multi-service-site *reference*

Synopsis	Multi service site name
Context	**configure** service epipe *service-name* sap *sap* multi-service-site *reference*
Tree	multi-service-site
Reference	**configure** service customer *customer-name* multi-service-site *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group
Context	**configure** service epipe *service-name* sap *sap* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** service epipe *service-name* service-id *number*
Tree	service-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

service-mtu *number*

Synopsis	MTU size
Context	**configure** service epipe *service-name* service-mtu *number*

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Tree service-mtu

Description This command configures the Maximum Transmission Unit (MTU) value (payload) for the service. The system uses the value to validate the operational state of the SAP and SDP binding within the service. The value overrides the default MTU for the service type.

The service MTU and a SAP's service delineation encapsulation overhead (4 bytes for a dot1q tag) are used to derive the required MTU of the physical port or channel on which the SAP was created. If the required payload is larger than the port or channel MTU, the SAP is placed in an inoperative state. If the required MTU is equal to or less than the port or channel MTU, the SAP transitions to the operative state.

When binding an SDP to a service, the service MTU is compared to the path MTU associated with the SDP. The path MTU can be administratively defined in the context of the SDP. The default or administrative path MTU can be dynamically reduced due to the MTU capabilities discovered by the tunneling mechanism of the SDP or the egress interface MTU capabilities based on the next hop in the tunnel path. If the service MTU is larger than the path MTU, the SDP binding for the service is placed in an inoperative state. If the service MTU is equal to or less than the path MTU, the SDP binding is placed in an operational state.

If a service MTU, port or channel MTU, or path MTU is dynamically or administratively modified, all associated SAP and SDP binding operational states are automatically reevaluated.

Binding operational states are automatically reevaluated.

For I-VPLS and Epipes bound to a B-VPLS, the service MTU must be at least 18 bytes smaller than the B-VPLS service MTU to accommodate the PBB header.

Because this connects a Layer 2 to a Layer 3 service, adjust the service MTU under the Epipe service. The MTU that is advertised from the Epipe side is service MTU minus EtherHeaderSize.

In the **configure service epipe spoke-sdp** context, the **adv-service-mtu** command can be used to override the configured MTU value used in T-LDP signaling to the far-end of an Epipe spoke-sdp. The **adv-service-mtu** command is also used to validate the value signaled by the far-end PE.

Range 1 to 9782

Introduced 25.3.R2

Platforms SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis Enter the **spoke-sdp** list instance

Context **configure** service epipe *service-name* spoke-sdp *sdp-bind-id*

Tree spoke-sdp

Description Commands in this context bind a service to an existing SDP. A spoke SDP is treated like a traditional bridge "port" where flooded traffic received on the spoke SDP is replicated

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on all other "ports" (other spoke and mesh SDPs or SAPs) and not transmitted on the port it was received.

The SDP has an operational state that determines the operational state of the SDP within the service. For example, if the SDP is administratively or operationally down, the SDP for the service is down.

The SDP must already be defined in the **configure service sdp** context to associate an SDP with an Epipe, VPLS, VPRN, or VPRN service. SDPs must be explicitly associated and bound to a service. If an SDP is not bound to a service, no far-end devices can participate in the service.

Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Policy to collect accounting statistics
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-service-mtu *number*

Synopsis	Service MTU used in signaling
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* adv-service-mtu *number*
Tree	adv-service-mtu
Description	This command configures the MTU value that is signaled in the targeted LDP for the spoke-SDP, instead of the service MTU. However, the configuration does not affect the locally enforced value, which is still based on the service MTU. This MTU value cannot be configured on a spoke-SDP that is bound to an SDP with the **adv-mtu-override** command (**configure service sdp** context). When unconfigured, an adjusted service MTU is used (**service-mtu** command).
Range	0 to 9782
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *(number | keyword)*

Synopsis	Bandwidth that is reserved for this SDP binding
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* bandwidth *(number | keyword)*
Tree	bandwidth
Range	0 to 100000000
Units	kilobps
Options	max
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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collect-stats *boolean*

Synopsis	Allow agent to collect accounting statistics
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

Synopsis	Use the control word as preferred
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* control-word *boolean*
Tree	control-word
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter

Synopsis	Enter the **filter** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

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network

Synopsis	Enter the **network** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the egress port queue group
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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instance *number*

Synopsis	Queue-group instance ID
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Egress MPLS VC label to send packets to the far end
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint

Synopsis	Enter the **endpoint** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* endpoint
Tree	endpoint
Introduced	25.3.R2
Platforms	SAR Gen 2

icb *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Bind SDP as type Inter-Chassis Backup (ICB)
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* endpoint icb *boolean*
Tree	icb
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Service endpoint name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* endpoint name *reference*
Tree	name
Reference	**configure** service epipe *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

precedence *(number | keyword)*

Synopsis	Precedence when multiple SDP binds are on one endpoint
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* endpoint precedence *(number | keyword)*
Tree	precedence
Range	1 to 4
Options	primary
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enable the use of entropy labels for spoke SDPs
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* entropy-label

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Tree	entropy-label
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm
Tree	eth-cfm
Description	Commands in this context configure ETH-CFM command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Description	Commands in this context configure an 802.1ag Maintenance Endpoint (MEP) instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ais

Synopsis	Enable the **ais** context

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Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais
Tree	ais
Description	Commands in this context enable the reception of AIS messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-meg-level *number*

Synopsis	Client MEG level for AIS message generation
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais client-meg-level *number*
Tree	client-meg-level
Description	This command configures the client Maintenance Entity Group (MEG) level to use for AIS message generation. One restriction is that the client MEG level must be higher than the local MEG level. Only the lowest client MEG level is used for facility MEPs.
Range	1 to 7
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-support *boolean*

Synopsis	Enable generation of AIS PDUs based on endpoint state
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interface-support *boolean*
Tree	interface-support
Description	When configured to **true**, the system enables the generation of AIS PDUs based on the associated endpoint state. AIS on operationally down MEPs triggers and clears based on the operational status of the entity it is configured on. If CCM is configured to **true**, transmission of the AIS PDU is based on either the nonoperational state of the entity or on any CCM defect conditions. AIS generation ceases if both the operational state is up and CCM has no defect conditions. If the MEP is not enabled with CCM, the operational state of the entity is the only consideration, assuming the command is present for the MEP. When configured to **false**, the generation of AIS PDUs is disabled.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Transmission interval for AIS messages
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interval *number*
Tree	interval
Range	1 | 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def – Generate AIS frame for any defect in CCM state machine mac-rem-err-xcon – Generate AIS frame for def-mac-status defect or higher
Default	all-def
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the AIS messages generated by the node
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais priority *number*
Tree	priority
Range	0 to 7
Default	7

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Introduced	25.3.R2
Platforms	SAR Gen 2

alarm-notification

Synopsis	Enter the **alarm-notification** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

ccm *boolean*

Synopsis	Generate CCM messages
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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direction *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Direction the MEP faces
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* direction *keyword*
Tree	direction
Description	This command configures the direction in which the MEP faces on the bridge port.
Options	down – Send ETH-CFM messages toward the MAC relay entity up – Send ETH-CFM messages away from the MAC relay entity
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors

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Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros

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Introduced	25.3.R2
Platforms	SAR Gen 2

fault-propagation *keyword*

Synopsis	Fault propagation for the MEP
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* fault-propagation *keyword*
Tree	fault-propagation
Options	use-if-status-tlv – Use the interface TLV suspend-ccm – Suspend continuity check messages
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2

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Platforms	SAR Gen 2

one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

force-vc-forwarding *keyword*

Synopsis	VLAN tag processing action
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* force-vc-forwarding *keyword*
Tree	force-vc-forwarding
Description	This command configures the VLAN tag processing used on the service. The **vlan** option configures the router to preserve the VLAN ID and 802.1p bits of the service-delimiting qtag in a new tag, which is sent in the customer frame to the EVPN destinations. The **qinq-c-tag-c-tag** option configures the router to pushes two tags with the same value derived from the inner service delimiting tag. At network ingress, two VLAN tags are extracted at most and the C-tag and S-tag p/de bits are propagated to the egress SAPs. The **qinq-s-tag-c-tag** option configures the router to push two tags that are copied from the QinQ service-delimiting VLAN values and may be different. At network ingress, two VLAN tags are extracted at most and the p/de bits are propagated to the egress SAP service-delimiting S-tag and C-tag respectively.
Options	vlan – Push VLAN ID and 802.1p bits of service-delimiting qtag qinq-c-tag-c-tag – Push two tags identical to inner service-delimiting tag qinq-s-tag-c-tag – Push two tags based on QinQ service-delimiting values
Introduced	25.3.R2
Platforms	SAR Gen 2

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hash-label

Synopsis	Enable the **hash-label** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* hash-label
Tree	hash-label
Description	Commands in this context configure the use of hash labels for egress datapaths. For information about hash-label handling, see the "Hash label" section of the *7705 SAR Gen 2 MPLS Guide*.
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-capability

Synopsis	Signal hash label capability to the remote PE
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* hash-label signal-capability
Tree	signal-capability
Description	When configured, this command enables the signaling and negotiating of the hash label between the local and remote PE nodes. The signaling process outcome determines whether the local PE inserts the hash label on the user packets. This outcome can override the local PE configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context

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Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context

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Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of FP ingress queue group for the SDP binding
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Ingress MPLS VC label to send packets to the far end
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group that affects state of the SDP bind
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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oper-group *reference*

Synopsis	Operational group identifier
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-status

Synopsis	Enter the **pw-status** context
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* pw-status
Tree	pw-status
Introduced	25.3.R2
Platforms	SAR Gen 2

block-on-peer-fault *boolean*

Synopsis	Block transmit direction of PW based on status code
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* pw-status block-on-peer-fault *boolean*
Tree	block-on-peer-fault
Default	false
Notes	The following elements are part of a choice: **block-on-peer-fault** or **standby-signaling-slave**.
Introduced	25.3.R2
Platforms	SAR Gen 2

signaling *boolean*

Synopsis	Allow SDP binding to support pseudowire status signaling
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* pw-status signaling *boolean*
Tree	signaling

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

standby-signaling-slave *boolean*

Synopsis	Block spoke transmission based on PW standby status
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* pw-status standby-signaling-slave *boolean*
Tree	standby-signaling-slave
Default	false
Notes	The following elements are part of a choice: **block-on-peer-fault** or **standby-signaling-slave**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Virtual circuit type associated with the SDP binding
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* vc-type *keyword*
Tree	vc-type
Options	ether, vlan
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-vc-tag *number*

Synopsis	SDP bind VC tag
Context	**configure** service epipe *service-name* spoke-sdp *sdp-bind-id* vlan-vc-tag *number*
Tree	vlan-vc-tag
Range	0 to 4094

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Introduced	25.3.R2
Platforms	SAR Gen 2

test *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate as a test service
Context	**configure** service epipe *service-name* test *boolean*
Tree	test
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-switching *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Use PW switching signaling for spoke SDPs in service
Context	**configure** service epipe *service-name* vc-switching *boolean*
Tree	vc-switching
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VPN identifier for the service
Context	**configure** service epipe *service-name* vpn-id *number*

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Tree	vpn-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

ies [service-name] *service-name*

Synopsis	Enter the **ies** list instance
Context	**configure** service ies *service-name*
Tree	ies
Description	Commands in this context specify an Internet Ethernet Service (IES) service instance. Multiple IES services are created to separate customer-owned IP interfaces. More than one IES service may be created for a single customer ID. More than one IP interface may be created within a single IES service ID. All IP interfaces created within an IES service ID belong to the same customer.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** service ies *service-name*
Tree	ies
Description	This command creates or edits a service instance. When a service is created, the **customer** keyword and *customer-id* must be specified and associates the service with a customer. The *customer-id* must already exist having been created using the customer command in the service context. When a service is created with a customer association, it is not possible to edit the customer association. The service must be deleted and re-created with a new customer association. When a service is created, the use of the **customer***customer-id* is optional to navigate into the service configuration context. If attempting to edit a service with the incorrect *customer-id* results in an error. This command specifies the unique service identification number identifying the service in the service domain. This ID must be unique to this service and may not be used for any other service of any type. The service ID must be the same number used for every platform on which this service is defined.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the service
Context	**configure** service ies *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

customer *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service customer ID
Context	**configure** service ies *service-name* customer *reference*
Tree	customer
Reference	**configure** service customer *customer-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service ies *service-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service ies *service-name* interface *interface-name*
Tree	interface
Description	Commands in this context create a logical IP routing interface. When created, attributes such as an IP address and SAP ID can be associated with the IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	**configure** service ies *service-name* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the interface
Context	**configure** service ies *service-name* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

autoconfigure

Synopsis	Enter the **autoconfigure** context

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Context	**configure** service ies *service-name* interface *interface-name* autoconfigure
Tree	autoconfigure
Description	Commands in this context configure the autoconfigure functionality for the interface.
Introduced	25.7.R1
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4
Tree	ipv4
Description	Commands in this context configure IPv4 autoconfigure settings.
Introduced	25.7.R1
Platforms	SAR Gen 2

dhcp-client

Synopsis	Enable the **dhcp-client** context
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client
Tree	dhcp-client
Description	Commands in this context configure the node as an IPv4 DHCP client. When the node operates as a DHCP client, it learns the IP address of the interface via dynamic IP address assignment.
Introduced	25.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP client
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.7.R1

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Platforms	SAR Gen 2

class-id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **class-id** context
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client class-id
Tree	class-id
Description	Commands in this context configure the vendor class ID for the DHCP client.
Introduced	25.7.R1
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Vendor class ID as an ASCII string
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client class-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.7.R1
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Vendor class ID as a hexadecimal string

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Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client class-id hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.7.R1
Platforms	SAR Gen 2

client-id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **client-id** context
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id
Tree	client-id
Description	Commands in this context configure the client ID for the DHCP client.
Introduced	25.7.R1
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client ID as an ASCII string
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

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hex-string *hex-string*

WARNING:
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Synopsis	Client ID as a hexadecimal string
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

interface

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interface name as the client ID
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id interface
Tree	interface
Description	This command configures the node to use the interface name as the client ID.
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

mac

WARNING:
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Synopsis	MAC address as the client ID

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Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id mac
Tree	mac
Description	This command configures the node to use the MAC address as the client ID.
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

lease-time *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Lease time the DHCP client requests
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client lease-time *(number | keyword)*
Tree	lease-time
Description	This command configures the lease time that the DHCP client requests to the DHCP server. The DHCP server can override the configured value.
Range	10 to 315446399
Units	seconds
Options	infinite – Request an infinite lease with no expiry
Default	86400
Introduced	25.7.R1
Platforms	SAR Gen 2

request-options

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **request-options** context
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options
Tree	request-options

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Description	Commands in this context configure the DHCP options to include in the parameter request list as part of the DHCPREQUEST message to the server.
Introduced	25.7.R1
Platforms	SAR Gen 2

dns-server *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the DNS server option
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options dns-server *boolean*
Tree	dns-server
Description	When configured to **true**, the node includes the DNS server option (Option 54) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

router *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the router option
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options router *boolean*
Tree	router
Description	When configured to **true**, the node includes the router option (Option 3) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

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static-route *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the static route option
Context	**configure** service ies *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options static-route *boolean*
Tree	static-route
Description	When configured to **true**, the node includes the static route option (Option 121) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-tunnel-redundant-nexthop *ipv4-unicast-address*

Synopsis	Redundant next-hop address for the dynamic IPsec tunnel
Context	**configure** service ies *service-name* interface *interface-name* dynamic-tunnel-redundant-nexthop *ipv4-unicast-address*
Tree	dynamic-tunnel-redundant-nexthop
Description	This command configures a redundant next-hop address on a public or private IPsec interface (with a public or private tunnel SAP) for dynamic IPsec tunnel in 1:1 MC-IPsec. A standby node uses the specified next-hop address to shunt traffic to the master in case it receives traffic destined to a tunnel endpoint address. The standby tunnel group needs to be operationally up for the feature to work.

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	The next-hop address is resolved in the routing table of a corresponding service.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **multi-chassis-shunting-profile** or (**dynamic-tunnel-redundant-nexthop** and **static-tunnel-redundant-nexthop**).
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

down

Synopsis	Enter the **down** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv4 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activating the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

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init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv4 down init-only *boolean*
Tree	init-only
Description	This command applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv4 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up

Synopsis	Enter the **up** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv4 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv4 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

down

Synopsis	Enter the **down** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv6 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv6 down init-only *boolean*
Tree	init-only

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Description	When configured to **true**, the system applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv6 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up

Synopsis	Enter the **up** context
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv6 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** service ies *service-name* interface *interface-name* hold-time ipv6 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

if-attribute

Synopsis	Enter the **if-attribute** context
Context	**configure** service ies *service-name* interface *interface-name* if-attribute
Tree	if-attribute
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group *reference*

Synopsis	Administrative group name for the interface
Context	**configure** service ies *service-name* interface *interface-name* if-attribute admin-group *reference*
Tree	admin-group
Description	This command specifies the administrative group membership to an interface. The configured administrative group membership is applied in all levels or areas the interface is participating in. The same interface cannot have different memberships in different levels or areas.
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg-group [name] *reference*

Synopsis	Add a list entry for **srlg-group**
Context	**configure** service ies *service-name* interface *interface-name* if-attribute srlg-group *reference*
Tree	srlg-group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *reference*

Synopsis	SRLG name
Context	**configure** service ies *service-name* interface *interface-name* if-attribute srlg-group *reference*
Tree	srlg-group
Reference	**configure** routing-options if-attribute srlg-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service ies *service-name* interface *interface-name* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

Synopsis	IP MTU applied to outgoing packets
Context	**configure** service ies *service-name* interface *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command configures the IP maximum transmission unit (MTU) for the associated router IP interface.
Range	512 to 9786
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-tunnel-interface *boolean*

WARNING:
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Synopsis	Enable IP tunnel interface
Context	**configure** service ies *service-name* interface *interface-name* ip-tunnel-interface *boolean*
Tree	ip-tunnel-interface
Description	When configured to **true**, the system enables a GRE virtual IP interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec

Synopsis	Enable the **ipsec** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec
Tree	ipsec
Description	Commands in this context configure an IPsec secured interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IPsec secured interface
Context	**configure** service ies *service-name* interface *interface-name* ipsec admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-exception *reference*

Synopsis	IP exception filter
Context	**configure** service ies *service-name* interface *interface-name* ipsec ip-exception *reference*
Tree	ip-exception
Description	This command configures the IP exception filter for the secured interface. All ingress traffic matching the specified filter bypasses IPsec processing.
Reference	**configure** filter ip-exception *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-tunnel [name] *named-item*

Synopsis	Enter the **ipsec-tunnel** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item*
Tree	ipsec-tunnel
Description	Commands in this context configure IPsec tunnels used to secure traffic forwarded over the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec tunnel name
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'name' must not start with a number (e.g. tunnel-1)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the IPsec tunnel
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **bfd** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-designate *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Designate IPsec tunnel to carry BFD traffic
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-designate *boolean*
Tree	bfd-designate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness
Tree	bfd-liveness
Description	Commands in this context configure a BFD session to provide a heart-beat mechanism for a specified IPsec tunnel. There can be only one BFD session assigned to any given IPsec tunnel, but there can be multiple IPsec tunnels using the same BFD session. BFD controls the state of the association tunnel. If the BFD session goes down, the system brings down the associated non-designated IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination address used for the BFD session
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness dest-ip *ipv4-unicast-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface *interface-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the interface used by the BFD session
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness service-name *service-name*
Tree	service-name
Description	This command configures the name of the service where BFD traffic is forwarded to.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Reset the DF bit to 0 in all payload IP packets
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* clear-df-bit *boolean*
Tree	clear-df-bit
Description	When configured to **true**, the DF bit is set to 0 in all payload IP packets associated with the IPsec tunnel, before any potential fragmentation occurs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

copy-traffic-class-upon-decapsulation *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable traffic class copy upon decapsulation
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* copy-traffic-class-upon-decapsulation *boolean*
Tree	copy-traffic-class-upon-decapsulation
Description	When configured to **true**, the system copies the traffic class from the outer tunnel IP packet header to the payload IP packet header in the decapsulating direction (public to private).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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encapsulated-ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet to the IPsec tunnel, the IP tunnel, or the dynamic tunnels terminated on the IPsec Gateway. If the encapsulated IPv4 or IPv6 tunnel packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp-generation** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation
Tree	icmp-generation
Description	Commands in this context configure settings for ICMPv4 message generation.
Introduced	25.3.R2
Platforms	SAR Gen 2

frag-required

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Enter the **frag-required** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required
Tree	frag-required
Description	Commands in this context configure the attributes for sending generated ICMP Destination Unreachable "fragmentation needed and DF set" messages (type 3, code 4) back to the source, if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of sending ICMP messages
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending ICMP messages
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required interval *number*

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Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMP messages that can be sent
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp6-generation** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation
Tree	icmp6-generation
Description	Commands in this context configure settings for ICMPv6 message generation.

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Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

WARNING:
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Synopsis	Enter the **packet-too-big** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big
Tree	packet-too-big
Description	Commands in this context configure the parameters to send ICMPv6 PTB (Packet Too Big) messages on the private side. The system sends PTB messages if a received IPv6 packet on the private side is greater than 1280 bytes and it exceeds the private MTU of the tunnel. The private MTU for the tunnel is configured via the **configure router interface ipsec ipsec-tunnel ip-mtu** command for the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending Packet Too Big messages
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big interval *number*
Tree	interval
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMPv6 PTB messages that can be sent
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big message-count *number*
Tree	message-count
Description	This command configures the maximum number of PTB messages that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private MTU of the IPsec tunnel
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* ip-mtu *number*
Tree	ip-mtu
Description	This command specifies the private MTU of the IPsec tunnel. The private MTU is used to determine the need for fragmentation before encapsulation of the payload packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

key-exchange

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **key-exchange** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange
Tree	key-exchange
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **dynamic** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic

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Tree	dynamic
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Attempt to establish a phase 1 exchange automatically
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic auto-establish *boolean*
Tree	auto-establish
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish-sustain *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Sustain the automatic establishment
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic auto-establish-sustain *boolean*
Tree	auto-establish-sustain
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

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cert

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **cert** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert
Tree	cert
Description	Commands in this context configure the attributes of the dynamic keying certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **status-verify** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify
Tree	status-verify
Description	Commands in this context configure attributes of Certificate Status Verification (CSV).
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-result *keyword*

Synopsis	Default result for Certificate Status Verification
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify default-result *keyword*
Tree	default-result
Description	This command specifies the default certificate revocation status result to use when all configured CSV methods fail to return a result.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify primary *keyword*
Tree	primary
Description	This command configures the primary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the certificate of the peer.
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify secondary *keyword*
Tree	secondary
Description	This command specifies the secondary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the peer certificate.
Options	none, crl, ocsp
Default	none

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Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **id** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id
Tree	id
Description	Commands in this context specify the local ID used for IDi or IDr for IKEv2 negotiation. The default behavior depends on the local authentication method as follows: • Psk: local tunnel IP address • Cert-auth: subject of the local certificate
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FQDN used as the local ID IKE type

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Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 as the local ID type
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv6 used as the local IKE ID type
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ike-policy *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IKE policy ID
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ike-policy *reference*
Tree	ike-policy
Description	This command specifies the ID of the IKE policy used for IKE negotiation. The **ipsec-transport-mode-profile** configuration only supports IKEv2.
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec transform IDs used by the dynamic key
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ipsec-transform *reference*
Tree	ipsec-transform
Description	This command specifies IPsec transform IDs used for CHILD_SA negotiation.
Reference	**configure** ipsec ipsec-transform *number*
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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ppk

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ppk** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk
Tree	ppk
Description	Commands in this context configure the PPKs to use for dynamic keying of the IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK ID
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk id *reference*
Tree	id
Reference	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

list *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK list instance name
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk list *reference*

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Tree	list
Reference	**configure** ipsec ppk-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Pre-shared key for authentication
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for authentication in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

reverse-route-injection

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **reverse-route-injection** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection
Tree	reverse-route-injection
Introduced	26.7.R1
Platforms	SAR Gen 2

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metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The metric to be used for reverse route injection
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection metric *number*
Tree	metric
Range	0 to 65535
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The preference to be used for reverse route injection
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection preference *number*
Tree	preference
Range	0 to 255
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

manual

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **manual** context

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Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual
Tree	manual
Description	Commands in this context configure settings for manually configured security associations for the IPsec tunnel.
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

keys [security-association] *number* direction *keyword*

Synopsis	Enter the **keys** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Description	Commands in this context configure the security association list for the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**security-association**] *number*

Synopsis	SA entry ID
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Direction of the IPsec tunnel
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys

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Options	inbound, outbound
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the authentication algorithm
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* authentication-key *hex-string*
Tree	authentication-key
String length	1 to 130
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the encryption algorithm
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* encryption-key *hex-string*
Tree	encryption-key
String length	1 to 66
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-transform *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Transform entry used by manual SAs
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* ipsec-transform *reference*
Tree	ipsec-transform
Reference	**configure** ipsec ipsec-transform *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spi *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	SPI of inbound and outbound packets
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* spi *number*
Tree	spi
Description	This command specifies the Security Parameter Index (SPI) used to look up the instruction to verify and decrypt the incoming IPsec packets when the direction is inbound. When the direction is outbound, the SPI is used in the encoding of the outgoing packets. The remote node can use the SPI to look up the instruction to verify and decrypt the packet.
Range	256 to 16383
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-gateway-address-override *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPsec tunnel endpoint address
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* local-gateway-address-override *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-gateway-address-override
Description	This command configures the local IPsec tunnel endpoint address. This overrides the default endpoint address, which is the interface address.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **max-history-key-records** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records
Tree	max-history-key-records
Description	Commands in this context configure the settings for recording historical IPsec keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of recent records
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records esp *number*

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Tree	esp
Range	1 to 48
Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of historical IKE key records
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

pmtu-discovery-aging *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Aging out time of the learned path MTU
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public and private MTU expiration time. The temporary MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

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private-sap *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Private SAP ID
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* private-sap *number*
Tree	private-sap
Range	0 to 4094
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

private-service *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Private service name
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* private-service *service-name*
Tree	private-service
Description	This command configures the private service name. If unconfigured, the private service is the service where the secured interface resides.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

private-tcp-mss-adjust *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) adjustment
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the TCP MSS to adjust for the tunnel on the private side. When configured, the system may use the value to update the MSS option in the received TCP SYN packet on the private side.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* propagate-pmtu-v4 *boolean*
Tree	propagate-pmtu-v4
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv4 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-pmtu-v6 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv6 hosts
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* propagate-pmtu-v6 *boolean*
Tree	propagate-pmtu-v6
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv6 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) on the public network
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command configures the MSS for the TCP traffic in an IPsec tunnel that is sent from the public network to the private network. The system may use this value to adjust or insert the MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote IPsec tunnel endpoint address
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* remote-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-gateway-address
Introduced	25.3.R2
Platforms	SAR Gen 2

replay-window *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Anti-replay window size
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* replay-window *number*
Tree	replay-window
Description	This command specifies the size of an IPsec anti-replay window. If unconfigured, IPsec anti-replay is disabled.
Range	32 | 64 | 128 | 256 | 512
Units	packets
Introduced	25.3.R2
Platforms	SAR Gen 2

security-policy

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **security-policy** context
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy

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Tree	security-policy
Description	Commands in this context specify a security policy used by the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Security policy ID for use by the tunnel
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy id *number*
Tree	id
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-match *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable strict match of the security policy entry
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy strict-match *boolean*
Tree	strict-match
Description	When configured to **true**, this command enables strict match of the security policy entry. When a CREATE_CHILD exchange request is received for a static IPsec tunnel, and this request is not a rekey request, ISA matches the received TSi and TSr with the configured security policy. This can be a match only when a received TS (in TSi or TSr) address range matches exactly with the subnet in a security policy entry. If there is no match, the setup fails, and TS_UNACCEPTABLE is sent. If there is a match, but there is an existing CHILD_SA for the matched security policy, the setup fails, and NO_PROPOSAL_CHOSEN is sent. If there is a match, and there is not a CHILD_SA for the matched entry, the subnet is sent in the matched security policy entry as TSi and TSr, and the CHILD_SA is created.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-exception *reference*

Synopsis	IPv6 filter exception used to bypass encryption
Context	**configure** service ies *service-name* interface *interface-name* ipsec ipv6-exception *reference*
Tree	ipv6-exception
Description	This command specifies the IPv6 filter exception for an IPsec-secured IPv6 interface. When an IPv6 filter exception is added, clear text packets that match the exception criteria in the IPv6 filter exception can ingress the interface, even when IPsec is enabled on the interface.
Reference	**configure** filter ipv6-exception *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

public-sap *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Public SAP ID
Context	**configure** service ies *service-name* interface *interface-name* ipsec public-sap *number*
Tree	public-sap
Range	0 to 4094
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Tunnel group ID
Context	**configure** service ies *service-name* interface *interface-name* ipsec tunnel-group *reference*
Tree	tunnel-group
Reference	**configure** isa tunnel-group *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

addresses

Synopsis	Enter the **addresses** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 addresses
Tree	addresses
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv4-address] *ipv4-unicast-address*

Synopsis	Enter the **address** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv4 addresses address *ipv4-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ipv4-address**] *ipv4-unicast-address*

Synopsis	IPv4 address for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 addresses address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service ies *service-name* interface *interface-name* ipv4 addresses address *ipv4-unicast-address* prefix-length *number*
Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-directed-broadcasts *boolean*

Synopsis	Forward directed broadcasts
Context	**configure** service ies *service-name* interface *interface-name* ipv4 allow-directed-broadcasts *boolean*
Tree	allow-directed-broadcasts
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context

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Context	**configure** service ies *service-name* interface *interface-name* ipv4 bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** service ies *service-name* interface *interface-name* ipv4 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** service ies *service-name* interface *interface-name* ipv4 bfd multiplier *number*
Tree	multiplier
Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.
Range	1 to 20

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Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp
Tree	dhcp
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DHCP
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

gi-address *ipv4-unicast-address*

Synopsis	GI address for the DHCP relay
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp gi-address *ipv4-unicast-address*
Tree	gi-address
Description	This command configures the GI address to distinguish between the different subscriber interfaces (and potentially group interfaces) defined when the router functions as a DHCP relay. By default, the GI address used in the relayed DHCP packet is the primary IP address of a normal IES interface. Specifying the GI address allows the user to choose a secondary address. For group interfaces, a GI address must be specified under the group interface DHCP context or subscriber interface DHCP context for DHCP to function.
String format	'ipv4-address' must use only digits and dots (no %zone)

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'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Introduced 25.3.R2

Platforms SAR Gen 2

lease-populate

Synopsis Enter the **lease-populate** context

Context **configure** service ies *service-name* interface *interface-name* ipv4 dhcp lease-populate

Tree lease-populate

Introduced 25.3.R2

Platforms SAR Gen 2

max-leases *number*

Synopsis Maximum number of DHCPv4 leases allowed

Context **configure** service ies *service-name* interface *interface-name* ipv4 dhcp lease-populate max-leases *number*

Tree max-leases

Range 0 to 511999

Introduced 25.3.R2

Platforms SAR Gen 2

option-82

Synopsis Enter the **option-82** context

Context **configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82

Tree option-82

Description Commands in this context configure the processing required when the router receives a DHCP request that already has an Option 82 field in the packet.

Introduced 25.3.R2

Platforms SAR Gen 2

action *keyword*

Synopsis Action to take with received DHCP Option 82

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Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 action *keyword*
Tree	action
Options	replace, drop, keep
Default	keep
Introduced	25.3.R2
Platforms	SAR Gen 2

circuit-id

Synopsis	Enter the **circuit-id** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id
Tree	circuit-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-tuple

Synopsis	Use the ASCII-encoded tuple for the circuit ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id ascii-tuple
Tree	ascii-tuple
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ifindex

Synopsis	Use the interface index for the circuit ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id ifindex
Tree	ifindex
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

none

Synopsis	Do not include the circuit ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id

Synopsis	Use the SAP ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id sap-id
Tree	sap-id
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-ascii-tuple

Synopsis	Include the VLAN ID and dot1p bits in the ASCII tuple
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id vlan-ascii-tuple
Tree	vlan-ascii-tuple
Description	When configured, the router includes the VLAN ID and dot1p bits with the ASCII-tuple information. This only occurs on dot1q and QinQ-encapsulated ports. When the Option 82 bits are stripped, dot1p bits are copied to the Ethernet header of the outgoing packet. When unconfigured, the router leaves the circuit ID sub-option of the DHCP packet empty.
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

remote-id

Synopsis	Enter the **remote-id** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id
Tree	remote-id
Description	Commands in this context configure the remote IP sub-option of the DHCP packet with the identity of the remote host end (typically the DHCP client).
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the remote ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Use the MAC address for the remote ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id mac
Tree	mac
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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none

Synopsis	Do not include the remote ID
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-specific-option

Synopsis	Enter the **vendor-specific-option** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option
Tree	vendor-specific-option
Description	Commands in this context configure the Nokia Vendor-Specific Option (VSO) of the DHCP packet.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-mac-address *boolean*

Synopsis	Send the MAC address in the VSO
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option client-mac-address *boolean*
Tree	client-mac-address
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-name *boolean*

Synopsis	Send the pool name in the VSO
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option pool-name *boolean*

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Tree	pool-name
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id *boolean*

Synopsis	Send SAP ID in the sub-option of the DHCP relay packet
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option sap-id *boolean*
Tree	sap-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *boolean*

Synopsis	Send the service ID in the Vendor Specific Option
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option service-id *boolean*
Tree	service-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the VSO
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option string *string-not-all-spaces*
Tree	string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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system-id *boolean*

Synopsis	Send the system ID in the VSO
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option system-id *boolean*
Tree	system-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-server

Synopsis	Enter the **proxy-server** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp proxy-server
Tree	proxy-server
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP proxy server
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp proxy-server admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

emulated-server *ipv4-unicast-address*

Synopsis	IP address used as the DHCP server address for the SAP
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp proxy-server emulated-server *ipv4-unicast-address*
Tree	emulated-server

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Description	This command configures the IP address which will be used as the DHCP server address in the context of the SAP. Typically, the configured address should be in the context of the subnet represented by the service.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-time

Synopsis	Enter the **lease-time** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp proxy-server lease-time
Tree	lease-time
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-override *boolean*

Synopsis	Use lease time information provided by RADIUS server
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp proxy-server lease-time radius-override *boolean*
Tree	radius-override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	DHCP lease time
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp proxy-server lease-time value *number*
Tree	value
Range	300 to 315446399
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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relay-plain-bootp *boolean*

Synopsis	Enable relaying of plain BOOTP packets
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp relay-plain-bootp *boolean*
Tree	relay-plain-bootp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

relay-proxy

Synopsis	Enable the **relay-proxy** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp relay-proxy
Tree	relay-proxy
Introduced	25.3.R2
Platforms	SAR Gen 2

release-update-src-ip *boolean*

Synopsis	Update the source IP address of a DHCP RELEASE message
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp relay-proxy release-update-src-ip *boolean*
Tree	release-update-src-ip
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

siaddr-override *ipv4-unicast-address*

Synopsis	DHCP server IP address for address hiding function
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp relay-proxy siaddr-override *ipv4-unicast-address*
Tree	siaddr-override
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv4-unicast-address*

Synopsis	IP addresses for DHCP server requests
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp server *ipv4-unicast-address*
Tree	server
Description	This command configures a list of servers that this interface forwards requests to. The operator can enter the list of servers as either IP addresses or fully qualified domain names. The operator must specify at least one server specified for DHCP relay to work. If there are multiple servers, the system forwards the request to all the servers in the list.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	8
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip-addr *keyword*

Synopsis	Type of source address to use for DHCP relay
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp src-ip-addr *keyword*
Tree	src-ip-addr
Options	auto, gi-address
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

trusted *boolean*

Synopsis	Relay untrusted packets
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp trusted *boolean*
Tree	trusted

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Description	When configured to **true**, the router enables the trusted mode on the interface. When enabled, the relay agent changes the existing GI address (of the request) to the ingress interface, and forwards the request. A DHCP request that contains a GI address of 0.0.0.0 and an Option 82 field in the packet is discarded unless it arrives on a trusted circuit. This behavior only applies if the Relay Agent Information Option action is to keep the existing information. When the Option 82 field is replaced by the relay agent, the original Option 82 information is lost, and there is no reason to enable the trusted option.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-arp *boolean*

Synopsis	Use ARP to determine the destination hardware address
Context	**configure** service ies *service-name* interface *interface-name* ipv4 dhcp use-arp *boolean*
Tree	use-arp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

mask-reply *boolean*

Synopsis	Allow responses to ICMP mask requests on the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp mask-reply *boolean*
Tree	mask-reply
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp param-problem
Tree	param-problem
Description	Commands in this context specify the settings for ICMP Parameter Problem messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sent Parameter Problem messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of Parameter Problem messages to send
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Time used to limit number of Parameter Problem messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp param-problem seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

redirects

Synopsis	Enter the **redirects** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp redirects
Tree	redirects
Description	Commands in this context configure the settings for ICMP redirect messages generated by the interface. The system sends ICMP redirect messages to alert the sending node that a more optimal route is available on another router on the same subnetwork.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending ICMP redirect messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp redirects admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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number *number*

Synopsis	Maximum number of ICMP redirect messages to send
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of ICMP redirect messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp redirects seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-expired

Synopsis	Enter the **ttl-expired** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp ttl-expired
Tree	ttl-expired
Description	Commands in this context configure the settings for ICMP TTL expired messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending TTL expired messages

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Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp ttl-expired admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of TTL expired messages to send
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp ttl-expired number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of TTL expired messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp ttl-expired seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp unreachables
Tree	unreachables

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Description	Commands in this context specify the settings for ICMP host and network destination unreachable messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending unreachable messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of unreachable messages to send
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp unreachables number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time to limit the number of ICMP unreachable messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 icmp unreachables seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-helper-address *ipv4-unicast-address*

Synopsis	Gateway address
Context	**configure** service ies *service-name* interface *interface-name* ipv4 ip-helper-address *ipv4-unicast-address*
Tree	ip-helper-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *reference*

Synopsis	DHCP server for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 local-dhcp-server *reference*
Tree	local-dhcp-server
Reference	**configure** router *named-item-64* dhcp-server dhcpv4 *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enable the **nat** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 nat
Tree	nat
Description	Commands in this context enable NAT and configure CPM NAT policies for the IPv4 interface. These commands must be used in conjunction with NAT pools where the pool application is configured with the **configure router nat outside pool applications use-interface-ip** command.
Introduced	25.7.R1
Platforms	SAR Gen 2

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cpm-nat-policy *reference*

Synopsis	CPM NAT policy association with public IPv4 interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 nat cpm-nat-policy *reference*
Tree	cpm-nat-policy
Description	This command associates a CPM NAT policy to the interface. The NAT policy applies to traffic that either originates from, or is destined to, the local node itself (CPM traffic). Specifically, it is used when the traffic is routed through a public NAT IPv4 interface in the outside routing context. A CPM NAT policy should be used when the local node communicates with public networks over NAT, and the source or destination is a local interface within the outside routing context. This can include the public IPv4 interface or any other interface assigned to that routing context.
Reference	**configure** service nat cpm-nat-policy *external-named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

cpm-spf-nat-policy *reference*

Synopsis	CPM NAT policy for static port forwards
Context	**configure** service ies *service-name* interface *interface-name* ipv4 nat cpm-spf-nat-policy *reference*
Tree	cpm-spf-nat-policy
Description	This command associates a CPM NAT policy to the interface for static port forwards. The configurations for traffic using static port forwards to a local IP address in the outside routing context are separate from those used for other CPM traffic going through NAT. This command allows the router to apply different NAT behavior for port-forwarded traffic than for general traffic originating from the local node.
Reference	**configure** service nat cpm-nat-policy *external-named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery
Tree	neighbor-discovery

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Introduced	25.3.R2
Platforms	SAR Gen 2

host-route

Synopsis	Enter the **host-route** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery host-route
Tree	host-route
Introduced	25.3.R2
Platforms	SAR Gen 2

populate [route-type] *keyword*

Synopsis	Enter the **populate** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery host-route populate *keyword*
Tree	populate
Description	Commands in this context enable the creation of ARP or ND host route entries in the route table from a certain ARP or ND entry type.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery host-route populate *keyword*
Tree	populate
Options	static – Host routes created from EVPN ARP or ND entries dynamic – Host routes created from dynamic ARP or ND entries evpn – Host routes created from EVPN entries evpn-local-es – Host routes created from EVPN local ES entries
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery host-route populate *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added in the route table for ARP or ND host routes. This tag can be matched on BGP VRF export and BGP peer export policies.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-unsolicited *boolean*

Synopsis	Learn new entries from any received NA message
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery learn-unsolicited *boolean*
Tree	learn-unsolicited
Description	When configured to **true**, the router can learn neighbor entries from received unsolicited Neighbor Advertisement (NA) messages, with or without the solicited (S) flag set. The command can be enabled for global addresses, link-local addresses, or for both. When configured to **false**, the router follows standard behavior for learning neighbor entries. • If an unsolicited NA (regardless of the S flag) is received from a neighbor that is not yet in the Neighbor Discovery (ND) cache, the NA is ignored. • If an NS, RS, RA, or Redirect message with a Link Layer Address (MAC) is received from a neighbor that is not yet in the ND cache, a new neighbor entry is created in the cache to store the received Link Layer MAC. The neighbor is put in the STALE state.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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limit

Synopsis	Enter the **limit** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery limit
Tree	limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Generate log entries only if limit is reached
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

Synopsis	Maximum number of entries learned on an IP interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery limit max-entries *number*
Tree	max-entries
Range	0 to 524288
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold value that triggers a warning message
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery limit threshold *number*
Tree	threshold
Range	1 to 100

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Units	percent
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

local-proxy-arp *boolean*

Synopsis	Enable local proxy ARP on interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery local-proxy-arp *boolean*
Tree	local-proxy-arp
Description	When configured to **true**, the router enables local proxy ARP on the interface. When configured to **false**, the router does not respond to ARP requests for addresses on the same subnet.
Introduced	25.3.R2
Platforms	SAR Gen 2

populate *boolean*

Synopsis	Allow static and dynamic hosts to be populated in system ARP cache
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery populate *boolean*
Tree	populate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proactive-refresh *boolean*

Synopsis	Send a single refresh message before entry timeout
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery proactive-refresh *boolean*
Tree	proactive-refresh
Description	When configured to **true**, the router always sends a refresh message 30 seconds before the timeout of the entry (a single refresh message with no retries). When configured to **false**, the router marks an entry as stale 30 seconds before age-out, and the router only sends an ARP request to refresh the entry if the IOM receives traffic

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that uses it. Then, the IOM asks the ARP application to send a refresh message. With ARP proactive refresh enabled, the ARP module sends a refresh message regardless of the IOM receiving traffic.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-arp-policy *reference*

Synopsis	Proxy ARP policy name
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery proxy-arp-policy *reference*
Tree	proxy-arp-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-proxy-arp *boolean*

Synopsis	Enable remote proxy ARP on the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery remote-proxy-arp *boolean*
Tree	remote-proxy-arp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timer *number*

Synopsis	ARP retry interval
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery retry-timer *number*
Tree	retry-timer
Range	1 to 300

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Units	deciseconds
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv4-address] *ipv4-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-address*

Synopsis	IPv4 address that corresponds to the physical address
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address* mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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static-neighbor-unnumbered

Synopsis	Enable the **static-neighbor-unnumbered** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor-unnumbered
Tree	static-neighbor-unnumbered
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor-unnumbered mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout for an ARP entry learned on the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 neighbor-discovery timeout *number*
Tree	timeout
Description	This command configures the minimum time an ARP entry learned on the IP interface is stored in the ARP table. ARP entries are automatically refreshed when an ARP request or gratuitous ARP is seen by an IP host. Otherwise, the ARP entry is aged from the ARP table.
Range	0 to 65535
Units	seconds
Default	14400
Introduced	25.3.R2
Platforms	SAR Gen 2

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primary

Synopsis	Enable the **primary** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 primary
Tree	primary
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Primary IPv4 address assigned to the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 primary address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** service ies *service-name* interface *interface-name* ipv4 primary broadcast *keyword*
Tree	broadcast
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service ies *service-name* interface *interface-name* ipv4 primary prefix-length *number*

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Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** service ies *service-name* interface *interface-name* ipv4 primary tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

secondary [address] *ipv4-unicast-address*

Synopsis	Enter the **secondary** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address*
Tree	secondary
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis	Secondary IPv4 address assigned to the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address*

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Tree	secondary
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** service ies *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* broadcast *keyword*
Tree	broadcast
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-inhibit *boolean*

Synopsis	Disable the running IGP from recognizing secondary IP
Context	**configure** service ies *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* igp-inhibit *boolean*
Tree	igp-inhibit
Description	When configured to **true**, the running IGP does not recognize the secondary IP address as a local interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service ies *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* prefix-length *number*
Tree	prefix-length

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Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** service ies *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 tcp-mss *number*
Tree	tcp-mss
Range	384 to 9746
Introduced	25.3.R2
Platforms	SAR Gen 2

unnumbered

Synopsis	Enter the **unnumbered** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 unnumbered
Tree	unnumbered

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-unicast-address*

Synopsis	IP address of the unnumbered interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 unnumbered ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **ip-address**, **ip-int-name**, or **system**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-int-name *interface-name*

Synopsis	IP interface name
Context	**configure** service ies *service-name* interface *interface-name* ipv4 unnumbered ip-int-name *interface-name*
Tree	ip-int-name
String length	1 to 32
Notes	The following elements are part of a choice: **ip-address**, **ip-int-name**, or **system**.
Introduced	25.3.R2
Platforms	SAR Gen 2

system

Synopsis	IP interface as an unnumbered interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 unnumbered system
Tree	system
Notes	The following elements are part of a choice: **ip-address**, **ip-int-name**, or **system**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-default *boolean*

Synopsis	Ignore default route when performing a uRPF check
Context	**configure** service ies *service-name* interface *interface-name* ipv4 urpf-check ignore-default *boolean*
Tree	ignore-default
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode
Context	**configure** service ies *service-name* interface *interface-name* ipv4 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp [virtual-router-id] *number*

Synopsis	Enter the **vrrp** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number*
Tree	vrrp

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual Router Identifier (VRID) for the IP interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number*
Tree	vrrp
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of VRRP
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* admin-state *keyword*
Tree	admin-state
Description	The command determines the administrative state of non-owner virtual router instances. Non-owner virtual router instances can be administratively disabled. This allows the termination of VRRP participation in the virtual router and stops all routing and other access capabilities with regards to the virtual router IP addresses. Disabling the virtual router instance provides a mechanism to maintain the virtual routers without causing false backup or master state changes. When **disabled**, no VRRP advertisement messages are generated and all received VRRP advertisement messages are silently discarded with no processing. Whenever the administrative or operational state of a virtual router instance transitions, a log message is generated. An owner virtual router context does not use this command. To administratively disable an owner virtual router instance, use the **admin-state** command within the parent IP interface node which administratively disables the IP interface.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-key *encrypted-leaf*

Synopsis	Password for simple text authentication
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command optionally assigns a simple text password authentication key to generate master VRRP advertisement messages and validate received VRRP advertisement messages. If this command is re-executed with a different password key defined, the new key immediately replaces the old key. This command may be executed at any time. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94
Introduced	25.3.R2
Platforms	SAR Gen 2

backup *ipv4-unicast-address*

Synopsis	Virtual router IP addresses for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* backup *ipv4-unicast-address*
Tree	backup
Description	This command associates virtual router IP addresses with those of the parental IP interface. This command has two different functions based on whether it is being executed on an owner or non-owner virtual router instance. Non-owner virtual router instances create a routable IP interface address that is operationally dependent on the virtual router instance mode (master or backup). This command, when executed on an owner virtual router instance, does not create a routable IP interface address; it simply defines the existing IP addresses of the parental IP interface that are advertised by the virtual router instance. For owner virtual router instances, this command defines the IP addresses that are advertised within VRRP advertisement messages. This communicates the IP addresses that the master is advertising to backup virtual routers receiving the messages. The specified *unicast-ipv4-address* must be equal to one of the existing IP addresses in the parental IP interface (primary or secondary) or this command fails. See "Owner and non-owner VRRP" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about owner and non-owner virtual router instances.

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Destination IP address to use for BFD session
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness dest-ip *ipv4-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
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Synopsis	Name of the interface running BFD
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

init-delay *number*

Synopsis	VRRP initialization delay timer
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* init-delay *number*
Tree	init-delay
Range	1 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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mac *mac-unicast-address*

Synopsis	Virtual MAC address to use in ARP responses
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* mac *mac-unicast-address*
Tree	mac
Description	This command sets an explicit MAC address for the virtual router instance that overrides the VRRP default derived from the VRID. Changing the default MAC address is useful when an existing HSRP or other non-VRRP default MAC is in use by the IP hosts that use the virtual router IP address. Many hosts do not monitor unessential ARPs and continue to use the cached non-VRRP MAC address after the virtual router becomes master of the host's gateway address. Additionally, this command sets the MAC address used in ARP responses when the virtual router instance is master. Routing of IP packets with *unicast-mac-address* as the destination MAC is also enabled. The MAC must be the same for all virtual routers participating as a virtual router or indeterminate connectivity by the attached IP hosts results. All VRRP advertisement messages are transmitted with *unicast-mac-address* as the source MAC. An operator can execute this command at any time and it takes effect immediately. When the virtual router MAC on a master virtual router instance changes, a gratuitous ARP is immediately sent with a VRRP advertisement message. If the virtual router instance is disabled or operating as a backup, the gratuitous ARP and VRRP advertisement messages are not sent.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

master-int-inherit *boolean*

Synopsis	Allow master instance to dictate the master down timer
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* master-int-inherit *boolean*
Tree	master-int-inherit
Description	When configured to **true**, the virtual router instance inherits the advertisement interval timer of the master VRRP router, which backup routers use to calculate the master down timer. When configured to **false**, the locally configured message interval must match the master's VRRP advertisement message advertisement interval field value or the message is discarded.
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-interval *number*

Synopsis Interval for sending VRRP advertisement messages

Context **configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* message-interval *number*

Tree message-interval

Description This command configures the administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages. The backup master down timer is derived from the value configured using this command.

The usage of this command varies for non-owner virtual router instances, depending on the state of the virtual router (master or backup) and the state of the **master-int-inherit** command:

- When a non-owner is operating as master for the virtual router, the system uses the configured value of this command as the operational advertisement timer, similar to an owner virtual router instance. The **master-int-inherit** command has no effect when operating as master.
- When a non-owner is in the backup state with **master-int-inherit** disabled, the system uses the configured value of this command to match the incoming advertisement interval field of the VRRP advertisement message. If the locally configured message interval does not match the advertisement interval field, the system discards the VRRP advertisement.
- When a non-owner is in the backup state with **master-int-inherit** enabled, the configured value of this command is ignored. The master down timer is indirectly derived from the advertisement interval field value of the incoming VRRP advertisement message.

Range 1 to 2559

Units deciseconds

Default 10

Introduced 25.3.R2

Platforms SAR Gen 2

monitor-oper-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis VRRP instance to follow a specified operational group

Context **configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* monitor-oper-group *reference*

Tree monitor-oper-group

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Description	This command configures VRRP to associate with an operational group. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router, the operational group is up and the operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp-reply *boolean*

Synopsis	Allow processing of NTP requests
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* ntp-reply *boolean*
Tree	ntp-reply
Description	When configured to **true**, the router redirects NTP requests to the VRRP virtual IP address. This behavior only applies to the router acting as the master VRRP router. When configured to **false**, the router does not process NTP requests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group name associated with the VRRP
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* oper-group *reference*
Tree	oper-group
Description	This command configures an operational group to associate with the VRRP. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router (MR), the operational group is up. The operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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owner *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate the virtual router instance as owner
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* owner *boolean*
Tree	owner
Description	When configured to **true**, the router designates this virtual router instance as the owner of the virtual router IP addresses. Therefore, this virtual router becomes responsible for forwarding packets sent to the virtual router IP addresses. The owner also assumes the role of master virtual router. When configured to **false**, this virtual router instance is designated as a non-owner.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Suppress the processing of VRRP advertisement messages
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* passive *boolean*
Tree	passive
Description	When configured to **true**, the router identifies this virtual router instance as passive; and therefore the owner of the virtual router IP addresses. A passive virtual router instance does not transmit or receive VRRP advertisement messages and is always in either the master state (if the interface is operationally up) or the init state (if the interface is operationally down). When configured to **false**, this virtual router instance is not identified as passive, meaning that it transmits and receives VRRP advertisement messages.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ping-reply *boolean*

Synopsis	Allow non-owner master to reply to ICMP echo requests
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* ping-reply *boolean*
Tree	ping-reply
Description	When configured to **true**, the router allows the non-owner master to reply to ICMP echo requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the ping request. Ping must not have been disabled at the management security level (either on the parental IP interface or on the Ping source host address). When configured to **false**, ICMP echo requests sent to non-owner master virtual IP addresses are silently discarded. Non-owner backup virtual routers never respond to ICMP echo requests, regardless of the configuration of this command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	VRRP priority control policy
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* policy *reference*
Tree	policy
Description	This command configures a VRRP priority control policy to associate with the virtual router instance. VRRP priority control policies can override or adjust the base priority value of the virtual router instance, depending on events or conditions within the chassis. An operator can associate a policy with more than one virtual router instance. The priority events within the policy either override or diminish the base priority set with the **priority** command. As priority events clear in the policy, the in-use priority can eventually be restored to the base priority value. For non-owner virtual router instances, if this command is not executed, the base priority is used as the in-use priority.
Reference	**configure** vrrp policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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preempt *boolean*

Synopsis	Allow the VRRP to override an existing non-owner master
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* preempt *boolean*
Tree	preempt
Description	When configured to **true**, this virtual router instance overrides any non-owner master with an in-use message priority value less than the in-use priority value of this virtual router. When configured to **false**, this virtual router only becomes master if the master down timer expires before a VRRP advertisement message is received from another virtual router.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Base priority for the VRRP
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* priority *number*
Tree	priority
Description	This command configures the base router priority for the virtual router instance, which defines the selection order of the virtual router in the master election process. The in-use priority is derived from the base priority. However, the in-use priority is modified by optional VRRP priority control policies. An operator can use VRRP priority control policies to either override or adjust the base priority value depending on events or conditions within the chassis.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh-reply *boolean*

Synopsis	Allow the non-owner master to reply to SSH requests
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* ssh-reply *boolean*
Tree	ssh-reply

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Description	When configured to **true**, the router allows the non-owner master to reply to SSH requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the SSH request. SSH cannot be disabled at the management security level (either on the parental IP interface or on the SSH source host address). When configure to **false**, SSH requests to non-owner master virtual IP addresses are silently discarded.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

standby-forwarding *boolean*

Synopsis	Allow standby router to forward traffic
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* standby-forwarding *boolean*
Tree	standby-forwarding
Description	When configured to **true**, the standby router forwards all traffic. When configured to **false**, the standby router cannot forward traffic sent to the MAC address of the virtual router. However, the standby router still forwards traffic sent to its own MAC address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-reply *boolean*

Synopsis	Allow non-owner master to reply to Telnet requests
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* telnet-reply *boolean*
Tree	telnet-reply
Description	When configured to **true**, the router allows the non-owner master to reply to Telnet requests directed at the IP addresses of the virtual router instance. Any routed interface can receive Telnet requests. Telnet cannot be disabled at the management security level (either on the parental IP interface or on the Telnet source host address). When configured to **false**, the router silently discards Telnet requests sent to non-owner master virtual IP addresses.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

traceroute-reply *boolean*

Synopsis	Allow non-owner master to reply to traceroute requests
Context	**configure** service ies *service-name* interface *interface-name* ipv4 vrrp *number* traceroute-reply *boolean*
Tree	traceroute-reply
Description	When configured to **true**, the router allows a non-owner master to reply to traceroute requests directed to the IP addresses of the virtual router instance. When configured to **false**, the router silently discards traceroute requests sent to non-owner master virtual IP addresses. Traceroute must not have been disabled at the management security level (either on the parental IP interface or the source host address).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enable the **ipv6** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6
Tree	ipv6
Description	This command enables the context to configure IPv6 parameters for the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv6-address] *ipv6-address*

Synopsis	Enter the **address** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address*
Tree	address
Description	This command assigns an IPv6 address/subnet to the interface. Up to 16 total primary and secondary IPv4 and IPv6 addresses can be assigned to network interfaces, and up to 256 to access interfaces. **Caution:** Configurations must not exceed 16 secondary IP addresses when IPsec, GRE, L2TPv3, or IP in IP protocols are active on an access interface.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address assigned to the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address*
Tree	address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Enable Duplicate Address Detection
Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address* duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD). When configured to **false**, the router disables DAD and sets the address to preferred, even if there is a duplicated address.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

eui-64 *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Form IPv6 address from prefix and 64-bit interface ID

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Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address* eui-64 *boolean*
Tree	eui-64
Description	When configured to **true**, the router forms a complete IPv6 address from the supplied prefix and 64-bit interface identifier. The 64-bit interface identifier is derived from the MAC address on Ethernet interfaces. For interfaces without a MAC address, for example POS interfaces, use the base MAC address of the chassis.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv6 address prefix length
Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address* prefix-length *number*
Tree	prefix-length
Range	4 to 128
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-preference *number*

Synopsis	Index assigned to the IPv6 address of the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address* primary-preference *number*
Tree	primary-preference
Description	This command assigns a primary preference index to an IPv6 address of the interface to enforce the order in which the address is used by control plane protocols and applications that require a fixed address of the interface, such as LDP and Segment Routing. In cases where a fixed address is required when originating packets from the interface, the IPv6 address with the lowest primary preference index is selected. If the selected address is removed, the next IPv6 address with the next lowest primary preference index is selected. If this index is not specified for the IPv6 address, the system assigns the next available index value to the address. The address index space is unique across all addresses of a given interface.
Range	1 to 4294967295

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Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** service ies *service-name* interface *interface-name* ipv6 address *ipv6-address* tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** service ies *service-name* interface *interface-name* ipv6 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** service ies *service-name* interface *interface-name* ipv6 bfd multiplier *number*
Tree	multiplier
Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.
Range	1 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100

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Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6
Tree	dhcp6
Introduced	25.3.R2
Platforms	SAR Gen 2

relay

Synopsis	Enter the **relay** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay
Tree	relay
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DHCPv6 Relay

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Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-populate

Synopsis	Enter the **lease-populate** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate
Tree	lease-populate
Introduced	25.3.R2
Platforms	SAR Gen 2

max-nbr-of-leases *number*

Synopsis	Maximum lease state entries allowed for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate max-nbr-of-leases *number*
Tree	max-nbr-of-leases
Range	0 to 32767
Default	0

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Introduced	25.3.R2
Platforms	SAR Gen 2

route-populate

Synopsis	Enter the **route-populate** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate
Tree	route-populate
Introduced	25.3.R2
Platforms	SAR Gen 2

na *boolean*

Synopsis	Create route based on IA_NA prefix option in relay-reply message
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate na *boolean*
Tree	na
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pd

Synopsis	Enable the **pd** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate pd
Tree	pd
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Create back hole route based on prefix exclude option in relay-reply message
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate pd exclude *boolean*

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Tree	exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ta *boolean*

Synopsis	Create route based on IA_TA prefix option in relay-reply message
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate ta *boolean*
Tree	ta
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

option

Synopsis	Enter the **option** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-id

Synopsis	Enter the **interface-id** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id
Tree	interface-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-tuple

Synopsis	Use ASCII-encoded concatenated tuple

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Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id ascii-tuple
Tree	ascii-tuple
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

if-index

Synopsis	Use interface index in the DHCPv6 relay packet
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id if-index
Tree	if-index
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id

Synopsis	Use SAP ID in interface ID option in relay packet
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id sap-id
Tree	sap-id
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string-not-all-spaces*

Synopsis	String for interface ID option in DHCPv6 relay packet
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id string *string-not-all-spaces*
Tree	string
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

remote-id *boolean*

Synopsis	Send remote ID option in the DHCPv6 relay packet
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay option remote-id *boolean*
Tree	remote-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv6-address-with-zone*

Synopsis	DHCPv6 server to which the DHCPv6 requests are forwarded
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay server *ipv6-address-with-zone*
Tree	server
String format	'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Max. instances	8
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *ipv6-unicast-or-linklocal-address*

Synopsis	Source IPv6 address of the DHCPv6 relay messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 dhcp6 relay source-address *ipv6-unicast-or-linklocal-address*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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duplicate-address-detection *boolean*

Synopsis	Enable Duplicate Address Detection per interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

forward-ipv4-packets *boolean*

Synopsis	Forward unencapsulated IPv4 packets
Context	**configure** service ies *service-name* interface *interface-name* ipv6 forward-ipv4-packets *boolean*
Tree	forward-ipv4-packets
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6
Tree	icmp6
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

Synopsis	Enter the **packet-too-big** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 packet-too-big
Tree	packet-too-big
Description	Commands in this context configure limiting the number of ICMPv6 Packet Too Big messages.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number of Packet Too big Messages issued per time frame
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 packet-too-big number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit Packet Too Big messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 packet-too-big seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 param-problem
Tree	param-problem
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Parameter Problem message sends
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number used to limit ICMPv6 Parameter Problem messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Parameter Problem messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 param-problem seconds *number*
Tree	seconds

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Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

redirects

Synopsis	Enter the **redirects** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 redirects
Tree	redirects
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Redirect message sends
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 redirects admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit ICMPv6 Redirect messages per time frame
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Time used to limit ICMPv6 Redirect messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 redirects seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

time-exceeded

Synopsis	Enter the **time-exceeded** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 time-exceeded
Tree	time-exceeded
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Time Exceeded message sends
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 time-exceeded admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit Time Exceeded messages per time frame
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 time-exceeded number *number*
Tree	number

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Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Time Exceeded messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 time-exceeded seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 unreachables
Tree	unreachables
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Unreachable message sends
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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number *number*

Synopsis	Number to limit Unreachable messages per time frame
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 unreachables number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Unreachable messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 icmp6 unreachables seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

link-local-address

Synopsis	Enter the **link-local-address** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 link-local-address
Tree	link-local-address
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

Synopsis	IPv6 link-local address
Context	**configure** service ies *service-name* interface *interface-name* ipv6 link-local-address address *ipv6-address*
Tree	address

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Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

Synopsis	Enable Duplicate Address Detection
Context	**configure** service ies *service-name* interface *interface-name* ipv6 link-local-address duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD) on the interface. When configured to **false**, the router disables DAD and sets the address to preferred, even if there is a duplicated address.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *reference*

Synopsis	DHCP server for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 local-dhcp-server *reference*
Tree	local-dhcp-server
Reference	**configure** router *named-item-64* dhcp-server dhcpv6 *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

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host-route

Synopsis	Enter the **host-route** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery host-route
Tree	host-route
Introduced	25.3.R2
Platforms	SAR Gen 2

populate [route-type] *keyword*

Synopsis	Enter the **populate** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery host-route populate *keyword*
Tree	populate
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery host-route populate *keyword*
Tree	populate
Options	static – Host routes created from EVPN ARP or ND entries dynamic – Host routes created from dynamic ARP or ND entries evpn – Host routes created from EVPN entries evpn-local-es – Host routes created from EVPN local ES entries
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery host-route populate *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added in the route table for ARP or ND host routes. This tag can be matched on BGP VRF export and BGP peer export policies.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-unsolicited *keyword*

Synopsis	Type of entries learned from unsolicited NA messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery learn-unsolicited *keyword*
Tree	learn-unsolicited
Description	This command enables the ability to learn neighbor entries out of received unsolicited Neighbor Advertisement (NA) messages, with or without the solicited flag set. When unconfigured, the router follows standard RFC 4861 behavior for learning of neighbor entries. The neighbor is put in the stale state. This is the standard RFC behavior.
Options	global, link-local, both
Introduced	25.3.R2
Platforms	SAR Gen 2

limit

Synopsis	Enter the **limit** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery limit
Tree	limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Generate log entries when limit is reached

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Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery limit log-only *boolean*
Tree	log-only
Description	When configured to **true**, the router sends the warning message at the specified threshold percentage or upon exceeding the specified limit. Entries that exceed the limit are learned. When configured to **false**, the router does not send the warning message.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

Synopsis	Maximum number of entries learned on an IP interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery limit max-entries *number*
Tree	max-entries
Description	This command configures the maximum number of entries that can be learned on an IP interface. When unconfigured, no maximum limit is imposed.
Range	0 to 102400
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold percentage that triggers a warning message
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery limit threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-proxy-nd *boolean*

Synopsis	Enable local proxy neighbor discovery on the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery local-proxy-nd *boolean*
Tree	local-proxy-nd
Description	When configured to **true**, the router enables local proxy neighbor discovery on the interface and replies to neighbor solicitation requests when both the hosts are on the same subnet. In this case, ICMP redirects are disabled. When configured to **false**, the router disables local proxy neighbor discovery on the interface and does not reply to neighbor solicitation requests if both the hosts are on the same subnet.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proactive-refresh *keyword*

Synopsis	Proactive refresh of neighbor entries
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery proactive-refresh *keyword*
Tree	proactive-refresh
Description	This command enables a proactive refresh of the neighbor entries. After the stale timer expires, the router sends an NUD message to the host (regardless of the existence of traffic to the IP address on the IOM), so the entry can be refreshed or removed.
Options	global, link-local, both
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-nd-policy *reference*

Synopsis	Proxy Neighbor Discovery policy name for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery proxy-nd-policy *reference*
Tree	proxy-nd-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

reachable-time *number*

Synopsis	Neighbor reachability detection timer
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery reachable-time *number*
Tree	reachable-time
Range	30 to 3600
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-time *number*

Synopsis	Time a Neighbor Discovery cache entry remains stale
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery stale-time *number*
Tree	stale-time
Range	60 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv6-address] *ipv6-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address*
Tree	static-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address corresponding to the physical address

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Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address*
Tree	static-neighbor
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service ies *service-name* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address* mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 tcp-mss *number*
Tree	tcp-mss
Range	1220 to 9726
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** service ies *service-name* interface *interface-name* ipv6 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-default *boolean*

Synopsis	Ignore default route when performing a uRPF check
Context	**configure** service ies *service-name* interface *interface-name* ipv6 urpf-check ignore-default *boolean*
Tree	ignore-default
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode
Context	**configure** service ies *service-name* interface *interface-name* ipv6 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp [virtual-router-id] *number*

Synopsis	Enter the **vrrp** list instance
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number*
Tree	vrrp
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual Router Identifier (VRID) for the IP interface

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Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number*
Tree	vrrp
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of VRRP
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* admin-state *keyword*
Tree	admin-state
Description	The command determines the administrative state of non-owner virtual router instances. Non-owner virtual router instances can be administratively disabled. This allows the termination of VRRP participation in the virtual router and stops all routing and other access capabilities with regards to the virtual router IP addresses. Disabling the virtual router instance provides a mechanism to maintain the virtual routers without causing false backup or master state changes. When **disabled**, no VRRP advertisement messages are generated and all received VRRP advertisement messages are silently discarded with no processing. Whenever the administrative or operational state of a virtual router instance transitions, a log message is generated. An owner virtual router context does not use this command. To administratively disable an owner virtual router instance, use the **admin-state** command within the parent IP interface node which administratively disables the IP interface.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup *ipv6-address*

Synopsis	Virtual router IP addresses for the interface
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* backup *ipv6-address*
Tree	backup

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Description This command associates router IPv6 virtual router IP addresses with those of the parental IP interface.

This command has two different functions based on whether it is being executed on an owner or non-owner virtual router instance.

Non-owner virtual router instance create a routable IP interface address that is operationally dependent on the virtual router instance mode (master or backup). This command, when executed on an owner virtual router instance, does not create a routable IP interface address; it simply defines the existing IP addresses of the parental IP interface that are advertised by the virtual router instance.

For owner virtual router instances, this command defines the IP addresses that are advertised within VRRP advertisement messages. This communicates the IP addresses that the master is representing to backup virtual routers receiving the messages. The specified IPv6 address must be equal to one of the existing parental IP addresses in the parental IP interface (primary or secondary) or this command fails.

See "Owner and non-owner VRRP" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about owner and non-owner virtual router instances.

Introduced 25.3.R2

Platforms SAR Gen 2

bfd-liveness

Synopsis Enable the **bfd-liveness** context

Context **configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness

Tree bfd-liveness

Introduced 25.3.R2

Platforms SAR Gen 2

dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis Destination address for the BFD session

Context **configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

Tree dest-ip

Notes This element is mandatory.

Introduced 25.3.R2

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Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
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Synopsis	Name of the interface running BFD
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

init-delay *number*

Synopsis	VRRP initialization delay timer
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* init-delay *number*
Tree	init-delay

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Range	1 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	Virtual MAC address to use in ARP responses
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* mac *mac-unicast-address*
Tree	mac
Description	This command sets an explicit MAC address for the virtual router instance that overrides the VRRP default derived from the VRID. Changing the default MAC address is useful when an existing HSRP or other non-VRRP default MAC is in use by the IP hosts that use the virtual router IP address. Many hosts do not monitor unessential ARPs and continue to use the cached non-VRRP MAC address after the virtual router becomes master of the host's gateway address. Additionally, this command sets the MAC address used in ARP responses when the virtual router instance is master. Routing of IP packets with *unicast-mac-address* as the destination MAC is also enabled. The MAC must be the same for all virtual routers participating as a virtual router or indeterminate connectivity by the attached IP hosts results. All VRRP advertisement messages are transmitted with *unicast-mac-address* as the source MAC. An operator can execute this command at any time and it takes effect immediately. When the virtual router MAC on a master virtual router instance changes, a gratuitous ARP is immediately sent with a VRRP advertisement message. If the virtual router instance is disabled or operating as a backup, the gratuitous ARP and VRRP advertisement messages are not sent.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

master-int-inherit *boolean*

Synopsis	Allow master instance to dictate the master down timer
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* master-int-inherit *boolean*
Tree	master-int-inherit
Description	When configured to **true**, the virtual router instance inherits the advertisement interval timer of the master VRRP router, which backup routers use to calculate the master down timer.

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When configured to **false**, the locally configured message interval must match the master's VRRP advertisement message advertisement interval field value or the message is discarded.

Introduced 25.3.R2

Platforms SAR Gen 2

message-interval *number*

Synopsis Interval for sending VRRP advertisement messages

Context **configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* message-interval *number*

Tree message-interval

Description This command configures the administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages. The backup master down timer is derived from the value configured using this command.

The use of this command varies for non-owner virtual router instances, depending on the state of the virtual router (master or backup) and the state of the **master-int-inherit** command:

- When a non-owner is operating as master for the virtual router, the system uses the configured value of this command as the operational advertisement timer, similar to an owner virtual router instance. The **master-int-inherit** command has no effect when operating as the master.
- When a non-owner is in the backup state with **master-int-inherit** disabled, the system uses the configured value of this command to match the incoming advertisement interval field of the VRRP advertisement message. If the locally configured message interval does not match the advertisement interval field, the system discards the VRRP advertisement.
- When a non-owner is in the backup state with **master-int-inherit** enabled, the configured value of this command is ignored. The master down timer is indirectly derived from the advertisement interval field value of the incoming VRRP advertisement message.

Range 10 to 4095

Units centiseconds

Default 100

Introduced 25.3.R2

Platforms SAR Gen 2

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monitor-oper-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VRRP instance to follow a specified operational group
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* monitor-oper-group *reference*
Tree	monitor-oper-group
Description	This command configures VRRP to associate with an operational group. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router, the operational group is up and the operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp-reply *boolean*

Synopsis	Allow processing of NTP requests
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* ntp-reply *boolean*
Tree	ntp-reply
Description	When configured to **true**, the router redirects NTP requests to the VRRP virtual IP address. This behavior only applies to the router acting as the master VRRP router. When configured to **false**, the router does not process NTP requests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group name associated with the VRRP
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* oper-group *reference*
Tree	oper-group

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Description	This command configures an operational group to associate with the VRRP. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router (MR), the operational group is up. The operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate the virtual router instance as owner
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* owner *boolean*
Tree	owner
Description	When configured to **true**, the router designates this virtual router instance as the owner of the virtual router IP addresses. Therefore, this virtual router becomes responsible for forwarding packets sent to the virtual router IP addresses. The owner also assumes the role of master virtual router. When configured to **false**, this virtual router instance is designated as a non-owner.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Suppress the processing of VRRP advertisement messages
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* passive *boolean*
Tree	passive
Description	When configured to **true**, the router identifies this virtual router instance as passive; and therefore the owner of the virtual router IP addresses. A passive virtual router instance

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does not transmit or receive VRRP advertisement messages and is always in either the master state (if the interface is operationally up) or the init state (if the interface is operationally down).

When configured to **false**, this virtual router instance is not identified as passive, meaning that it transmits and receives VRRP advertisement messages.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ping-reply *boolean*

Synopsis	Allow non-owner master to reply to ICMP echo requests
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* ping-reply *boolean*
Tree	ping-reply
Description	When configured to **true**, the router allows the non-owner master to reply to ICMP echo requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the ping request. Ping must not have been disabled at the management security level (either on the parental IP interface or on the Ping source host address). When configured to **false**, ICMP echo requests sent to non-owner master virtual IP addresses are silently discarded. Non-owner backup virtual routers never respond to ICMP echo requests, regardless of the configuration of this command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	VRRP priority control policy
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* policy *reference*
Tree	policy
Description	This command configures a VRRP priority control policy to associate with the virtual router instance. VRRP priority control policies can override or adjust the base priority value of the virtual router instance, depending on events or conditions within the chassis. An operator can associate a policy with more than one virtual router instance. The priority events within the policy either override or diminish the base priority set with

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the **priority** command. As priority events clear in the policy, the in-use priority can eventually be restored to the base priority value.

For non-owner virtual router instances, if this command is not executed, the base priority is used as the in-use priority.

Reference **configure** vrrp policy *number*

Introduced 25.3.R2

Platforms SAR Gen 2

preempt *boolean*

Synopsis Allow the VRRP to override an existing non-owner master

Context **configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* preempt *boolean*

Tree preempt

Description When configured to **true**, this virtual router instance overrides any non-owner master with an in-use message priority value less than the in-use priority value of this virtual router.

When configured to **false**, this virtual router only becomes master if the master down timer expires before a VRRP advertisement message is received from another virtual router.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

priority *number*

Synopsis Base priority for the VRRP

Context **configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* priority *number*

Tree priority

Description This command configures the base router priority for the virtual router instance, which defines the selection order of the virtual router in the master election process.

The in-use priority is derived from the base priority. However, the in-use priority is modified by optional VRRP priority control policies. An operator can use VRRP priority control policies to either override or adjust the base priority value depending on events or conditions within the chassis.

Range 1 to 255

Introduced 25.3.R2

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Platforms	SAR Gen 2

standby-forwarding *boolean*

Synopsis	Allow standby router to forward traffic
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* standby-forwarding *boolean*
Tree	standby-forwarding
Description	When configured to **true**, the standby router forwards all traffic. When configured to **false**, the standby router cannot forward traffic sent to the MAC address of the virtual router. However, the standby router still forwards traffic sent to its own MAC address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-reply *boolean*

Synopsis	Allow non-owner master to reply to Telnet requests
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* telnet-reply *boolean*
Tree	telnet-reply
Description	When configured to **true**, the router allows the non-owner master to reply to Telnet requests directed at the IP addresses of the virtual router instance. Any routed interface can receive Telnet requests. Telnet cannot be disabled at the management security level (either on the parental IP interface or on the Telnet source host address). When configured to **false**, the router silently discards Telnet requests sent to non-owner master virtual IP addresses.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traceroute-reply *boolean*

Synopsis	Allow non-owner master to reply to traceroute requests
Context	**configure** service ies *service-name* interface *interface-name* ipv6 vrrp *number* traceroute-reply *boolean*
Tree	traceroute-reply

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Description	When configured to **true**, the router allows a non-owner master to reply to traceroute requests directed to the IP addresses of the virtual router instance. When configured to **false**, the router silently discards traceroute requests sent to non-owner master virtual IP addresses. Traceroute must not have been disabled at the management security level (either on the parental IP interface or the source host address).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing

Synopsis	Enter the **load-balancing** context
Context	**configure** service ies *service-name* interface *interface-name* load-balancing
Tree	load-balancing
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-load-balancing *keyword*

Synopsis	IP load-balancing algorithm
Context	**configure** service ies *service-name* interface *interface-name* load-balancing ip-load-balancing *keyword*
Tree	ip-load-balancing
Description	This command specifies whether to include the source address, destination address, or both in LAG or ECMP hash on IP interfaces. Additionally, when the **l4-load-balancing** command is enabled, this command also includes the source or destination port in the hash inputs.
Options	both, destination, source, inner-ip
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

loopback *boolean*

Synopsis	Use interface as a loopback interface
Context	**configure** service ies *service-name* interface *interface-name* loopback *boolean*

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Tree	loopback
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	MAC address for the interface
Context	**configure** service ies *service-name* interface *interface-name* mac *mac-unicast-address*
Tree	mac
Description	This command assigns a specific MAC address to an IP interface.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-accounting *boolean*

Synopsis	Enable MAC accounting functionality
Context	**configure** service ies *service-name* interface *interface-name* mac-accounting *boolean*
Tree	mac-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group to monitor
Context	**configure** service ies *service-name* interface *interface-name* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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multi-chassis-shunting-profile *reference*

Synopsis	Multi-chassis shunting profile name
Context	**configure** service ies *service-name* interface *interface-name* multi-chassis-shunting-profile *reference*
Tree	multi-chassis-shunting-profile
Description	This command configures the name of a multi-chassis shunting profile to use on public or private tunnel interfaces.
Reference	**configure** router *named-item-64* ipsec multi-chassis-shunting-profile *named-item*
Notes	The following elements are part of a choice: **multi-chassis-shunting-profile** or (**dynamic-tunnel-redundant-nexthop** and **static-tunnel-redundant-nexthop**).
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-network-domain *reference*

Synopsis	Network domain name
Context	**configure** service ies *service-name* interface *interface-name* multicast-network-domain *reference*
Tree	multicast-network-domain
Reference	**configure** router *named-item-64* network-domains network-domain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp-hw-assist

Synopsis	Enter the **ptp-hw-assist** context
Context	**configure** service ies *service-name* interface *interface-name* ptp-hw-assist
Tree	ptp-hw-assist
Description	Commands in this context enable the port-based timestamping assist of PTP packets at the physical interface. This capability is supported on specific hardware. The command may be blocked if not all hardware has the required level of support. Only one interface per physical port can have port-based timestamping assist enabled. This feature cannot be enabled if the physical port supporting the interface is configured as a PTP port.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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admin-state *keyword*

Synopsis	Administrative state of the PTP timestamping assist
Context	**configure** service ies *service-name* interface *interface-name* ptp-hw-assist admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap*
Tree	sap
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* accounting-policy *reference*

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Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SAP
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	SAP bandwidth
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* bandwidth *number*
Tree	bandwidth
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting statistics
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *long-description*

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* description *long-description*
Tree	description
String length	1 to 160
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection *reference*

Synopsis	Distributed CPU protection policy for SAP
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* dist-cpu-protection *reference*
Tree	dist-cpu-protection
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

agg-rate

Synopsis	Enter the **agg-rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress agg-rate
Tree	agg-rate

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Notes	The following elements are part of a choice: **agg-rate** or **percent-agg-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-frame-based-accounting *boolean*

Synopsis	Enable frame based accounting on policers and queues
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress agg-rate queue-frame-based-accounting *boolean*
Tree	queue-frame-based-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *number*

Synopsis	Enforced aggregate rate for all queues
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress agg-rate rate *number*
Tree	rate
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

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overrides

Synopsis	Enable the **overrides** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2

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Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-egress

Synopsis	Enter the **sap-egress** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress
Tree	sap-egress
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides

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Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max

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Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**queue-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-egress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir

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Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-frame-overhead *decimal-number*

Synopsis	Average packet-to-frame encapsulation overhead
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* avg-frame-overhead *decimal-number*
Tree	avg-frame-overhead
Description	This command configures overrides for the average frame overhead. The overrides supersede the average frame overhead configuration under the queue. For a full description of this command, see the **configure qos network-queue queue avg-frame-overhead** and **configure qos sap-egress queue avg-frame-overhead** contexts.
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail
Tree	drop-tail

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Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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parent

Synopsis	Enter the **parent** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID to associate with SAP for mirrored service
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress port-redirect-group

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Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the queue group redirect list policy
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of port queue group
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos sap-egress port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name. If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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parent

Synopsis	Enter the **parent** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2

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Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ingress

Synopsis	Enter the **ingress** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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qos

Synopsis	Enter the **qos** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy policy-name *reference*
Tree	policy-name

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Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-ingress

Synopsis	Enter the **sap-ingress** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress
Tree	sap-ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Queue group template name created on forwarding plane
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Queue group instance

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-ingress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

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percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate
Tree	rate

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Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode

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Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2

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Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate
Tree	percent-rate

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Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-ingress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the

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policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands.

If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name.

If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.

String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent weight *number*

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Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-tunnel [tunnel-name] *interface-name*

Synopsis	Enter the **ip-tunnel** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name*
Tree	ip-tunnel
Description	Commands in this context configure an IP-GRE or IP-IP tunnel and associate it with a private tunnel SAP within an IES service.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tunnel-name**] *interface-name*

Synopsis	IP tunnel name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name*
Tree	ip-tunnel
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the IP tunnel
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Backup remote IP address that is applied to this tunnel
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* backup-remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	backup-remote-ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Clear the Do-not-Fragment bit
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* clear-df-bit *boolean*
Tree	clear-df-bit
Description	When configured to **true**, the DF bit is cleared (set to 0) in all payload IP packets associated with the GRE or IPsec tunnel, before any potential fragmentation resulting from the ip-mtu command. This requires a modification of the header checksum.

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When configured to **false**, clearing of the DF bit is disabled.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

delivery-service *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Service to originate and terminate GRE packets
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* delivery-service *service-name*
Tree	delivery-service
Description	This command specifies the service used to originate and terminate the GRE encapsulated packets belonging to the GRE tunnel. The delivery service may be the same service that owns the private tunnel SAP associated with the GRE tunnel. The GRE tunnel does not come up until a valid delivery service is configured.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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dest-ip [dest-ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **dest-ip**
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dest-ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the remote IP tunnel endpoint
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Description	This command configures the IP address of the remote IP tunnel endpoint. If the remote IP address is not within the subnet of the IP interface associated with the tunnel, the tunnel fails to come up.
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Differentiated Services Code Point (DSCP) name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2

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Platforms	SAR Gen 2

encapsulated-ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet for the IP tunnel. If the packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

gre-header

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **gre-header** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header
Tree	gre-header
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Administrative state of the GRE header in the tunnel
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

key

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **key** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key
Tree	key
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of the keys in the GRE header
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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receive *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Receive key of the GRE header
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key receive *number*
Tree	receive
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

send *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Send key of the GRE header
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key send *number*
Tree	send
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp-generation** context

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation
Tree	icmp-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

frag-required

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **frag-required** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required
Tree	frag-required
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of sending ICMP messages
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending ICMP messages
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required interval *number*
Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMP messages sent
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP messages that can be sent during the period specified by the **interval** command.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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icmp6-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp6-generation** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation
Tree	icmp6-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **packet-too-big** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big
Tree	packet-too-big
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of sending Packet Too Big messages
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

number *number*

WARNING:
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Synopsis	Maximum number of PTB ICMPv6 messages that can be sent
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big number *number*
Tree	number
Description	This command configures the maximum number of ICMPv6 messages that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum interval when PTB messages can be sent
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IP MTU for the interface
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command specifies the IP MTU for the interface. If the DF bit is not set in the packet, IP packet fragmentation is performed, if necessary, based on this configured value. When unconfigured, all IP packets, regardless of the packet size or DF bit setting, are allowed into the tunnel without fragmentation.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transport-mode-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec transport mode profile name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* ipsec-transport-mode-profile *reference*
Tree	ipsec-transport-mode-profile
Reference	**configure** ipsec ipsec-transport-mode-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IP address of this tunnel
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* local-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-ip-address
Description	This command specifies the local IP address to use for the IP tunnel. This configuration applies to the outer IP header of the encapsulated packets. The address must belong to one of the IP subnets associated with the public SAP interface of the tunnel group. The source IP address, the remote IP address, and the backup remote IP address of a tunnel must all belong to the same address family (IPv4 or IPv6). When this command specifies an IPv6 address, it must be a global unicast address.
Introduced	25.3.R2
Platforms	SAR Gen 2

pmtu-discovery-aging *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time to age out the learned path MTU
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public MTU expiration time. The temporary public MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

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private-tcp-mss-adjust *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP Maximum Segment Size (MSS) on the private side
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the TCP MSS to adjust for tunnels on the private side. The value is used to adjust the TCP MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* propagate-pmtu-v4 *boolean*
Tree	propagate-pmtu-v4
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v6 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of path MTU to IPv6 hosts
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* propagate-pmtu-v6 *boolean*

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Tree	propagate-pmtu-v6
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP Maximum Segment Size (MSS) on the public side
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command specifies the TCP MSS for TCP traffic sent from the public network to the private network. The value is used to adjust the TCP MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

reassembly *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum reassembly wait time
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* reassembly *(number | keyword)*
Tree	reassembly
Description	This command configures the maximum time to wait to receive all fragments of a particular IPsec or GRE packet for reassembly.
Range	1 to 5000
Units	milliseconds
Options	use-tunnel-group-setting, none

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Introduced	25.3.R2
Platforms	SAR Gen 2

remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote IP address of the tunnel
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-gateway [name] *named-item*

Synopsis	Enter the **ipsec-gateway** list instance
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item*
Tree	ipsec-gateway
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec gateway name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item*
Tree	ipsec-gateway
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec gateway
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cert

Synopsis	Enter the **cert** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert
Tree	cert
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

Synopsis	Enter the **status-verify** context

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify
Tree	status-verify
Description	Commands in this context configure certificate revocation status verification.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-result *keyword*

Synopsis	Default result of Certificate Status Verification (CSV)
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify default-result *keyword*
Tree	default-result
Description	This command specifies the default result when both the primary and secondary methods fail to provide an answer.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify primary *keyword*
Tree	primary
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method of CSV to verify the revocation status
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify secondary *keyword*

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Tree	secondary
Options	none, crl, ocsp
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

client-db

Synopsis	Enable the **client-db** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* client-db
Tree	client-db
Description	Commands in this context configure the IPsec client database. The client database is used to authenticate the IKEv2 dynamic LAN-to-LAN tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

fallback *boolean*

Synopsis	Fall back to the default authentication policy
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* client-db fallback *boolean*
Tree	fallback
Description	When configured to **true**, this command specifies whether the IPsec gateway can fall back to the default authentication policy when the IPsec tunnel authentication request fails to match any clients in the IPsec database.

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When configured to **false** and the client database lookup fails to return a matched result, the system fails the tunnel setup.

Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Client database name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* client-db name *reference*
Tree	name
Reference	**configure** ipsec client-db *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-secure-service

Synopsis	Enable the **default-secure-service** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-secure-service
Tree	default-secure-service
Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private IPsec tunnel interface name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-secure-service interface *interface-name*
Tree	interface
String length	1 to 32

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Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Default security service name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-secure-service service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

default-tunnel-template *reference*

Synopsis	Default tunnel policy template for the gateway
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-tunnel-template *reference*
Tree	default-tunnel-template
Reference	**configure** ipsec tunnel-template *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-address-assignment

Synopsis	Enter the **dhcp-address-assignment** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment
Tree	dhcp-address-assignment
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcpv4

Synopsis	Enable the **dhcpv4** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4
Tree	dhcpv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec DHCPv4 server
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

gi-address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Gateway IP address of DHCPv4 packets sent by the system
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 gi-address *ipv4-unicast-address*
Tree	gi-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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send-release *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Send DHCPv4 release message when IPsec tunnel removed
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 send-release *boolean*
Tree	send-release
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

server

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **server** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 server
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv4 server addresses
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 server address *ipv4-unicast-address*
Tree	address

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Description	This command specifies DHCPv4 server addresses for the DHCPv4-based address assignment. If multiple server addresses are specified, the first advertised DHCPv4 address received is chosen.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance used to reach the DHCPv4 server
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 server router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv6

Synopsis	Enable the **dhcpv6** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6
Tree	dhcpv6
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCPv6 server

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

link-address *ipv6-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Link address of the relayed DHCPv6 packets
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 link-address *ipv6-unicast-address*
Tree	link-address
Introduced	25.3.R2
Platforms	SAR Gen 2

send-release *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Send DHCPv6 release message when IPsec tunnel removed
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 send-release *boolean*
Tree	send-release
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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server

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **server** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 server
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv6 server addresses
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 server address *ipv6-unicast-address*
Tree	address
Description	This command specifies DHCPv6 server addresses for the DHCPv6-based address assignment. If multiple server addresses are specified, the first advertised DHCPv6 address received is chosen.
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance to reach the DHCPv6 server

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 server router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-policy *reference*

Synopsis	IKE policy ID
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* ike-policy *reference*
Tree	ike-policy
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

local

Synopsis	Enter the **local** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local
Tree	local
Introduced	25.3.R2
Platforms	SAR Gen 2

address-assignment

Synopsis	Enable the **address-assignment** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment
Tree	address-assignment
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of local address assignments
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **ipv4** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-server *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local DHCPv4 server name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 dhcp-server *named-item*
Tree	dhcp-server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the pool defined in the specified DHCPv4 server
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance ID for the local DHCPv4 server
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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secondary-pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the secondary pool defined in the DHCPv4 server
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 secondary-pool *named-item*
Tree	secondary-pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **ipv6** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-server *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local DHCPv6 server name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6 dhcp-server *named-item*
Tree	dhcp-server

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Secondary pool name defined in the DHCPv6 server
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6 pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance ID hosting the DHCPv6 connection
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6 router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
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Synopsis	Local gateway address of the IPsec gateway
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	gateway-address
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Enter the **id** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id
Tree	id
Description	Commands in this context specify the local ID used for the Identification Indicator (IDi) or Identification Responder (IDr) in the IKEv2 tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Select ID based on authentication method in IKE policy
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id auto
Tree	auto
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fqdn *fully-qualified-domain-name*

WARNING:
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Synopsis	FQDN as the local ID type
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 address as the local ID type
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
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Synopsis	IPv6 address as the local ID type

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Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

Synopsis	Enter the **max-history-key-records** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* max-history-key-records
Tree	max-history-key-records
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

Synopsis	Maximum number of recent records
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* max-history-key-records esp *number*
Tree	esp
Range	1 to 48
Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

Synopsis	Maximum number of historical IKE keys recorded
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

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mixed-tunnel-mode

WARNING:
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Synopsis	Enable the **mixed-tunnel-mode** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* mixed-tunnel-mode
Tree	mixed-tunnel-mode
Description	Commands in this context configure the IPsec gateway to support both remote access and dynamic LAN-to-LAN tunnels. When unconfigured, support of both tunnel types is disabled.
Introduced	25.7.R1
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf*

Synopsis	Pre-shared key for the IPsec gateway
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for the IPsec gateway in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* radius
Tree	radius
Introduced	25.3.R2

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Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	RADIUS accounting policy
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* radius accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** ipsec radius accounting-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-policy *reference*

Synopsis	RADIUS authentication policy
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* radius authentication-policy *reference*
Tree	authentication-policy
Reference	**configure** ipsec radius authentication-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ts-list *reference*

Synopsis	TS list used for IKEv2 TS negotiation
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* ts-list *reference*
Tree	ts-list
Reference	**configure** ipsec ts-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Enter the **lag** context
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* lag

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Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-service-site *reference*

Synopsis	Multi service site name
Context	**configure** service ies *service-name* interface *interface-name* sap *sap* multi-service-site *reference*
Tree	multi-service-site
Reference	**configure** service customer *customer-name* multi-service-site *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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accounting-policy *reference*

Synopsis	Policy to collect accounting statistics
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Allow agent to collect accounting statistics
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2

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Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the egress port queue group
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Queue-group instance ID
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
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Synopsis	Egress MPLS VC label to send packets to the far end
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enable the use of entropy labels for spoke SDPs
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* entropy-label
Tree	entropy-label
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-label

Synopsis	Enable the **hash-label** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* hash-label
Tree	hash-label
Description	Commands in this context configure the use of hash labels for egress datapaths. For information about hash-label handling, see the "Hash labels" section of the *7705 SAR Gen 2 MPLS Guide*.
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-capability

Synopsis	Signal hash label capability to the remote PE
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* hash-label signal-capability

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Tree	signal-capability
Description	When configured, this command enables the signaling and negotiating of the hash label between the local and remote PE nodes. The signaling process outcome determines whether the local PE inserts the hash label on the user packets. This outcome can override the local PE configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-name *reference*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of FP ingress queue group for the SDP binding
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Ingress MPLS VC label to send packets to the far end

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Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Virtual circuit type associated with the SDP binding
Context	**configure** service ies *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* vc-type *keyword*
Tree	vc-type
Options	ether – Ethernet pseudowire associated with SDP binding ipipe – Ipipe pseudowire associated with SDP binding
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

static-tunnel-redundant-nexthop *ipv4-unicast-address*

Synopsis	Address for the static ISA tunnel redundant next-hop
Context	**configure** service ies *service-name* interface *interface-name* static-tunnel-redundant-nexthop *ipv4-unicast-address*
Tree	static-tunnel-redundant-nexthop
Description	This command configures a redundant next-hop address on a public or private IPsec interface (with a public or private tunnel SAP) for a static IPsec tunnel in 1:1 MC-IPsec. A standby node uses the specified next-hop address to shunt traffic to the master in case it receives traffic destined to a tunnel endpoint address. The standby tunnel group needs to be operationally up for the feature to work. The next-hop address is resolved in the routing table of the corresponding service.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **multi-chassis-shunting-profile** or (**dynamic-tunnel-redundant-nexthop** and **static-tunnel-redundant-nexthop**).

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Introduced	25.3.R2
Platforms	SAR Gen 2

tos-marking-state *keyword*

Synopsis	TOS marking state
Context	**configure** service ies *service-name* interface *interface-name* tos-marking-state *keyword*
Tree	tos-marking-state
Options	trusted, untrusted
Default	untrusted
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Enable/disable tunnel interface
Context	**configure** service ies *service-name* interface *interface-name* tunnel *boolean*
Tree	tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vas-if-type *keyword*

Synopsis	VAS interface type
Context	**configure** service ies *service-name* interface *interface-name* vas-if-type *keyword*
Tree	vas-if-type
Options	to-from-access, to-from-network, to-from-both
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpls [vpls-name] *named-item-64*

Synopsis	Enter the **vpls** list instance
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64*
Tree	vpls
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**vpls-name**] *named-item-64*

Synopsis	VPLS service
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64*
Tree	vpls
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

reclassify-using-qos *reference*

Synopsis	Egress QoS policy
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* egress reclassify-using-qos *reference*
Tree	reclassify-using-qos

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Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

routed-override-filter

Synopsis	Enter the **routed-override-filter** context
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* egress routed-override-filter
Tree	routed-override-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* egress routed-override-filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* egress routed-override-filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context

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Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn
Tree	evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

arp

Synopsis	Enter the **arp** context
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn arp
Tree	arp
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise [route-type] *keyword*

Synopsis	Enter the **advertise** list instance
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword*
Tree	advertise
Description	Commands in this context specify the configuration to allow ARP or ND entries that are installed in the ARP or ND cache to be advertised in EVPN MAC/IP routes. The **learn-dynamic** command must be set to **false** when using this functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword*
Tree	advertise
Description	This command specifies the type of ARP or ND entries that are installed in the ARP or ND cache into EVPN MAC/IP routes.
Options	static, dynamic, evpn-local-es
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
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Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added separately to dynamic or static ARP or ND entries that are advertised in EVPN MAC/IP routes. This tag can be matched on BGP vsi-export (in the R-VPLS) and BGP peer export policies.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

flood-garp-and-unknown-req *boolean*

Synopsis	Allow CPM originated ARP frames to flood R-VPLS service
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn arp flood-garp-and-unknown-req *boolean*
Tree	flood-garp-and-unknown-req
Description	When configured to **true**, the system allows CPM-originated ARP frames to be flooded in the R-VPLS service. Any frames that are data path flooded such as the ARP messages received on a SAP, are flooded irrespective of this command. When configured to **false**, CPM-originated ARP flooding is suppressed.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-dynamic *boolean*

Synopsis	Process ARP or ND messages on EVPN tunnels

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Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn arp learn-dynamic *boolean*
Tree	learn-dynamic
Description	When configured to **true**, the system processes ARP or ND messages that arrive on EVPN tunnels. When configured to **false**, learning is disabled and table entries are not created for these messages.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

nd

Synopsis	Enter the **nd** context
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn nd
Tree	nd
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise [route-type] *keyword*

Synopsis	Enter the **advertise** list instance
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword*
Tree	advertise
Description	Commands in this context specify the configuration to allow ARP or ND entries that are installed in the ARP or ND cache to be advertised in EVPN MAC/IP routes. The **learn-dynamic** command must be set to **false** when using this functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword*

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Tree	advertise
Description	This command specifies the type of ARP or ND entries that are installed in the ARP or ND cache into EVPN MAC/IP routes.
Options	static, dynamic, evpn-local-es
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added separately to dynamic or static ARP or ND entries that are advertised in EVPN MAC/IP routes. This tag can be matched on BGP vsi-export (in the R-VPLS) and BGP peer export policies.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-dynamic *boolean*

Synopsis	Process ARP or ND messages on EVPN tunnels
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* evpn nd learn-dynamic *boolean*
Tree	learn-dynamic
Description	When configured to **true**, the system processes ARP or ND messages that arrive on EVPN tunnels. When configured to **false**, learning is disabled and table entries are not created for these messages.
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

routed-override-filter

Synopsis	Enter the **routed-override-filter** context
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* ingress routed-override-filter
Tree	routed-override-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* ingress routed-override-filter ip *reference*
Tree	ip
Description	This command specifies an IP filter that is applied to routed unicast ingress packets entering the VPLS service and destined to the R-VPLS interface MAC address. The filter overrides any existing ingress IP filter applied to SAPs or SDP bindings for packets associated with the routing IP interface. The override filter is optional and when it is not defined or it is removed, the IP routed packets use the existing ingress IP filter configured on the VPLS endpoint.
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service ies *service-name* interface *interface-name* vpls *named-item-64* ingress routed-override-filter ipv6 *reference*
Tree	ipv6
Description	This command specifies an IPv6 filter that is applied to routed unicast ingress packets entering the VPLS service and destined to the R-VPLS interface MAC address. The filter overrides any existing ingress IP filter applied to SAPs or SDP bindings for packets associated with the routing IP interface. The override filter is optional and when it is not defined or it is removed, the IP routed packets use the existing ingress IP filter configured on the VPLS endpoint.
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-transport [ipt-id] *port*

Synopsis	Enter the **ip-transport** list instance
Context	**configure** service ies *service-name* ip-transport *port*
Tree	ip-transport
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ipt-id**] *port*

Synopsis	IP Transport identifier.
Context	**configure** service ies *service-name* ip-transport *port*
Tree	ip-transport
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the IP transport.

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Context	**configure** service ies *service-name* ip-transport *port* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Description for the IP transport.
Context	**configure** service ies *service-name* ip-transport *port* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

dscp-name *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	dscp name
Context	**configure** service ies *service-name* ip-transport *port* dscp-name *keyword*
Tree	dscp-name
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Default	ef
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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filter-unknown-host *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable/Disable unknown host filtering.
Context	**configure** service ies *service-name* ip-transport *port* filter-unknown-host *boolean*
Tree	filter-unknown-host
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

local-host

Synopsis	Enter the **local-host** context
Context	**configure** service ies *service-name* ip-transport *port* local-host
Tree	local-host
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ip-address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 address used for this local host.
Context	**configure** service ies *service-name* ip-transport *port* local-host ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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port-num *number*

WARNING:
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Synopsis	TCP/UDP port number.
Context	**configure** service ies *service-name* ip-transport *port* local-host port-num *number*
Tree	port-num
Range	1026 to 49150
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

protocol *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Protocol used.
Context	**configure** service ies *service-name* ip-transport *port* local-host protocol *keyword*
Tree	protocol
Options	tcp, udp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-host [remote-host-id] *number*

Synopsis	Enter the **remote-host** list instance
Context	**configure** service ies *service-name* ip-transport *port* remote-host *number*
Tree	remote-host
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**remote-host-id**] *number*

Synopsis	remote host identifer

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Context	**configure** service ies *service-name* ip-transport *port* remote-host *number*
Tree	remote-host
Range	1 to 2147483647
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	User provided description for the remote host.
Context	**configure** service ies *service-name* ip-transport *port* remote-host *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ip-address *ipv4-unicast-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 address used for this remote host.
Context	**configure** service ies *service-name* ip-transport *port* remote-host *number* ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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port-num *number*

WARNING:
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Synopsis	TCP/UDP port number.
Context	**configure** service ies *service-name* ip-transport *port* remote-host *number* port-num *number*
Tree	port-num
Range	1 to 65535
Notes	This element is mandatory.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-host-name *string*

Synopsis	User provided name for the remote host.
Context	**configure** service ies *service-name* ip-transport *port* remote-host *number* remote-host-name *string*
Tree	remote-host-name
String length	1 to 64
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tcp

Synopsis	Enter the **tcp** context
Context	**configure** service ies *service-name* ip-transport *port* tcp
Tree	tcp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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inactivity-timeout *number*

WARNING:
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Synopsis	Length of time to wait before disconnecting an inactive TCP connection.
Context	**configure** service ies *service-name* ip-transport *port* tcp inactivity-timeout *number*
Tree	inactivity-timeout
Range	1 to 65535
Units	seconds
Default	30
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

max-retries *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of max retries.
Context	**configure** service ies *service-name* ip-transport *port* tcp max-retries *number*
Tree	max-retries
Range	0 to 10
Default	5
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

retry-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Length of time to wait before a TCP retry.
Context	**configure** service ies *service-name* ip-transport *port* tcp retry-interval *number*

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Tree	retry-interval
Range	0 to 300
Units	seconds
Default	5
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

service-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** service ies *service-name* service-id *number*
Tree	service-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VPN identifier for the service
Context	**configure** service ies *service-name* vpn-id *number*
Tree	vpn-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-list [name] *named-item*

Synopsis	Enter the **mac-list** list instance
Context	**configure** service mac-list *named-item*

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Tree	mac-list
Description	Commands in this context specify the MAC addresses to be included in a MAC list to be used with the Auto-Learn MAC Protect (ALMP) functionality. The list is used to exclude certain MAC addresses from protection, for example, on SAPs or spoke SDPs configured with ALMP where certain MAC addresses (such as VRRP virtual MAC addresses) must be able to move to other objects.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	MAC list name
Context	**configure** service mac-list *named-item*
Tree	mac-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service mac-list *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [address] *mac-address*

Synopsis	Enter the **mac** list instance
Context	**configure** service mac-list *named-item* mac *mac-address*
Tree	mac
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**address**] *mac-address*

Synopsis	MAC address
Context	**configure** service mac-list *named-item* mac *mac-address*
Tree	mac
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *mac-address*

Synopsis	Mask for the MAC address
Context	**configure** service mac-list *named-item* mac *mac-address* mask *mac-address*
Tree	mask
Default	ff:ff:ff:ff:ff:ff
Introduced	25.3.R2
Platforms	SAR Gen 2

md-auto-id

Synopsis	Enter the **md-auto-id** context
Context	**configure** service md-auto-id
Tree	md-auto-id
Introduced	25.3.R2
Platforms	SAR Gen 2

customer-id-range

Synopsis	Enable the **customer-id-range** context
Context	**configure** service md-auto-id customer-id-range
Tree	customer-id-range
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of the ID range
Context	**configure** service md-auto-id customer-id-range end *number*
Tree	end
Range	2 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Lower bound of the ID range
Context	**configure** service md-auto-id customer-id-range start *number*
Tree	start
Range	2 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-template-id-range

Synopsis	Enable the **pw-template-id-range** context
Context	**configure** service md-auto-id pw-template-id-range
Tree	pw-template-id-range
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of the PW template ID range
Context	**configure** service md-auto-id pw-template-id-range end *number*
Tree	end
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Lower bound of the PW template ID range
Context	**configure** service md-auto-id pw-template-id-range start *number*
Tree	start
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id-range

Synopsis	Enable the **service-id-range** context
Context	**configure** service md-auto-id service-id-range
Tree	service-id-range
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of the service ID range
Context	**configure** service md-auto-id service-id-range end *number*
Tree	end
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Lower bound of the service ID range
Context	**configure** service md-auto-id service-id-range start *number*
Tree	start
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enter the **nat** context
Context	**configure** service nat
Tree	nat
Introduced	25.3.R2
Platforms	SAR Gen 2

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cpm-nat-policy [name] *external-named-item*

Synopsis	Enter the **cpm-nat-policy** list instance
Context	**configure** service nat cpm-nat-policy *external-named-item*
Tree	cpm-nat-policy
Description	Commands in this context configure CPM NAT policies.
Max. instances	64
Introduced	25.7.R1
Platforms	SAR Gen 2

[**name**] *external-named-item*

Synopsis	CPM NAT policy name
Context	**configure** service nat cpm-nat-policy *external-named-item*
Tree	cpm-nat-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.7.R1
Platforms	SAR Gen 2

alg

Synopsis	Enter the **alg** context
Context	**configure** service nat cpm-nat-policy *external-named-item* alg
Tree	alg
Description	Commands in this context configure the Application Layer Gateway (ALG) attributes of the policy.
Introduced	25.7.R1
Platforms	SAR Gen 2

ftp *boolean*

Synopsis	Use FTP ALG for the policy

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Context	**configure** service nat cpm-nat-policy *external-named-item* alg ftp *boolean*
Tree	ftp
Default	true
Introduced	25.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service nat cpm-nat-policy *external-named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.7.R1
Platforms	SAR Gen 2

filtering *keyword*

Synopsis	Filtering method for inbound traffic for the policy
Context	**configure** service nat cpm-nat-policy *external-named-item* filtering *keyword*
Tree	filtering
Options	endpoint-independent, address-and-port-dependent
Default	endpoint-independent
Introduced	25.7.R1
Platforms	SAR Gen 2

port-limits

Synopsis	Enter the **port-limits** context
Context	**configure** service nat cpm-nat-policy *external-named-item* port-limits
Tree	port-limits
Introduced	25.7.R1
Platforms	SAR Gen 2

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dynamic-ports *number*

Synopsis	Maximum number of dynamic ports per subscriber
Context	**configure** service nat cpm-nat-policy *external-named-item* port-limits dynamic-ports *number*
Tree	dynamic-ports
Description	This command limits the number of ports per protocol on an outside IP address for a subscriber regardless of the pool pairing mode. This command applies to LSN44 pools with flexible port allocation.
Range	1 to 65536
Default	65536
Introduced	25.7.R1
Platforms	SAR Gen 2

forwarding *number*

Synopsis	Maximum number of port forwarding entries
Context	**configure** service nat cpm-nat-policy *external-named-item* port-limits forwarding *number*
Tree	forwarding
Range	1 to 65535
Introduced	25.7.R1
Platforms	SAR Gen 2

watermarks

Synopsis	Enable the **watermarks** context
Context	**configure** service nat cpm-nat-policy *external-named-item* port-limits watermarks
Tree	watermarks
Description	This command configures watermarks for NAT resources.
Introduced	25.7.R1
Platforms	SAR Gen 2

high *number*

Synopsis	High watermark percentage

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Context	**configure** service nat cpm-nat-policy *external-named-item* port-limits watermarks high *number*
Tree	high
Description	This command configures the high threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.7.R1
Platforms	SAR Gen 2

low *number*

Synopsis	Low watermark percentage
Context	**configure** service nat cpm-nat-policy *external-named-item* port-limits watermarks low *number*
Tree	low
Description	This command configures the low threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.7.R1
Platforms	SAR Gen 2

session-limits

Synopsis	Enter the **session-limits** context
Context	**configure** service nat cpm-nat-policy *external-named-item* session-limits
Tree	session-limits
Description	Commands in this context configure session-limit attributes for the policy.
Introduced	25.7.R1
Platforms	SAR Gen 2

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max *number*

Synopsis	Maximum number of sessions per subscriber
Context	**configure** service nat cpm-nat-policy *external-named-item* session-limits max *number*
Tree	max
Range	1 to 65535
Default	100
Introduced	25.7.R1
Platforms	SAR Gen 2

watermarks

Synopsis	Enable the **watermarks** context
Context	**configure** service nat cpm-nat-policy *external-named-item* session-limits watermarks
Tree	watermarks
Description	This command configures watermarks for NAT resources.
Introduced	25.7.R1
Platforms	SAR Gen 2

high *number*

Synopsis	High watermark percentage
Context	**configure** service nat cpm-nat-policy *external-named-item* session-limits watermarks high *number*
Tree	high
Description	This command configures the high threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.7.R1
Platforms	SAR Gen 2

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low *number*

Synopsis	Low watermark percentage
Context	**configure** service nat cpm-nat-policy *external-named-item* session-limits watermarks low *number*
Tree	low
Description	This command configures the low threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.7.R1
Platforms	SAR Gen 2

tcp

Synopsis	Enter the **tcp** context
Context	**configure** service nat cpm-nat-policy *external-named-item* tcp
Tree	tcp
Description	Commands in this context configure the Transmission Control Protocol (TCP) attributes of the policy.
Introduced	25.7.R1
Platforms	SAR Gen 2

mss-adjust *number*

Synopsis	TCP MSS adjustment value
Context	**configure** service nat cpm-nat-policy *external-named-item* tcp mss-adjust *number*
Tree	mss-adjust
Description	This command configures the value to use to adjust the TCP Maximum Segment Size (MSS) option, if not already present or the present value is higher.
Range	160 to 10240
Introduced	25.7.R1
Platforms	SAR Gen 2

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timeouts

Synopsis	Enter the **timeouts** context
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts
Tree	timeouts
Description	Commands in this context configure the attributes of session idle timeouts for the policy.
Introduced	25.7.R1
Platforms	SAR Gen 2

icmp-query *number*

Synopsis	Timeout applied to an ICMP Query session
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts icmp-query *number*
Tree	icmp-query
Range	60 to 240
Units	seconds
Default	60
Introduced	25.7.R1
Platforms	SAR Gen 2

tcp

Synopsis	Enter the **tcp** context
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts tcp
Tree	tcp
Description	Commands in this context configure TCP timeout attributes.
Introduced	25.7.R1
Platforms	SAR Gen 2

established *number*

Synopsis	Idle timeout for TCP session in established state
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts tcp established *number*
Tree	established

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Range	60 to 86400
Units	seconds
Default	7440
Introduced	25.7.R1
Platforms	SAR Gen 2

syn *number*

Synopsis	TCP session timeout when synchronizing initial sequence
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts tcp syn *number*
Tree	syn
Range	6 to 86400
Units	seconds
Default	15
Introduced	25.7.R1
Platforms	SAR Gen 2

time-wait *number*

Synopsis	Timeout applied to a TCP session in the time-wait state
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts tcp time-wait *number*
Tree	time-wait
Range	0 to 240
Units	seconds
Default	0
Introduced	25.7.R1
Platforms	SAR Gen 2

transitory *number*

Synopsis	Idle timeout for TCP session in transitory state
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts tcp transitory *number*
Tree	transitory

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Range	60 to 86400
Units	seconds
Default	240
Introduced	25.7.R1
Platforms	SAR Gen 2

udp

Synopsis	Enter the **udp** context
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts udp
Tree	udp
Description	Commands in this context configure the User Datagram Protocol (UDP) mapping timeout attributes.
Introduced	25.7.R1
Platforms	SAR Gen 2

dns *number*

Synopsis	Timeout applied to UDP session with destination port 53
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts udp dns *number*
Tree	dns
Range	15 to 86400
Units	seconds
Default	15
Introduced	25.7.R1
Platforms	SAR Gen 2

initial *number*

Synopsis	UDP mapping timeout applied to new sessions
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts udp initial *number*
Tree	initial
Range	10 to 300
Units	seconds
Default	15

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Introduced	25.7.R1
Platforms	SAR Gen 2

normal *number*

Synopsis	UDP mapping timeout
Context	**configure** service nat cpm-nat-policy *external-named-item* timeouts udp normal *number*
Tree	normal
Range	60 to 86400
Units	seconds
Default	300
Introduced	25.7.R1
Platforms	SAR Gen 2

udp

Synopsis	Enter the **udp** context
Context	**configure** service nat cpm-nat-policy *external-named-item* udp
Tree	udp
Introduced	25.7.R1
Platforms	SAR Gen 2

inbound-refresh *boolean*

Synopsis	Extend UDP session timeout on inbound traffic
Context	**configure** service nat cpm-nat-policy *external-named-item* udp inbound-refresh *boolean*
Tree	inbound-refresh
Description	When configured to **true**, the router extends the UDP session timeout on inbound traffic. When configured to **false**, the router does not extend the UDP session timeout.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

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nat-policy [name] *external-named-item*

Synopsis	Enter the **nat-policy** list instance
Context	**configure** service nat nat-policy *external-named-item*
Tree	nat-policy
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *external-named-item*

Synopsis	NAT policy name
Context	**configure** service nat nat-policy *external-named-item*
Tree	nat-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

alg

Synopsis	Enter the **alg** context
Context	**configure** service nat nat-policy *external-named-item* alg
Tree	alg
Description	Commands in this context configure the Application Layer Gateway (ALG) attributes of the policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

ftp *boolean*

Synopsis	Use FTP ALG for the policy
Context	**configure** service nat nat-policy *external-named-item* alg ftp *boolean*

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Tree	ftp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

pptp *boolean*

Synopsis	Use PPTP ALG for the policy
Context	**configure** service nat nat-policy *external-named-item* alg pptp *boolean*
Tree	pptp
Description	When configured to **true**, the policy uses Point-to-Point Tunneling Protocol (PPTP) ALG. PPTP sessions can only be initiated from NAT inside. GRE traffic is allowed through NAT only if the corresponding mapping exists. There can be seven calls (GRE tunnels) per control session. When configured to **false**, PPTP ALG is not used.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rtsp *boolean*

Synopsis	Use RTSP ALG for the policy
Context	**configure** service nat nat-policy *external-named-item* alg rtsp *boolean*
Tree	rtsp
Description	When configured to **true**, Real-Time Streaming Protocol (RTSP) ALG is used for the policy.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sip *boolean*

Synopsis	Use SIP ALG for the policy
Context	**configure** service nat nat-policy *external-named-item* alg sip *boolean*

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Tree	sip
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

block-limit *number*

Synopsis	Maximum number of port blocks per subscriber
Context	**configure** service nat nat-policy *external-named-item* block-limit *number*
Tree	block-limit
Range	1 to 40
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service nat nat-policy *external-named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

filtering *keyword*

Synopsis	Filtering method for inbound traffic for the policy
Context	**configure** service nat nat-policy *external-named-item* filtering *keyword*
Tree	filtering
Options	endpoint-independent, address-and-port-dependent
Default	endpoint-independent
Introduced	25.3.R2
Platforms	SAR Gen 2

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pool

Synopsis	Enter the **pool** context
Context	**configure** service nat nat-policy *external-named-item* pool
Tree	pool
Notes	The following elements are part of a choice: **dnat-only**, **l2-outside**, or **pool**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *named-item*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	NAT pool name
Context	**configure** service nat nat-policy *external-named-item* pool name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Router or VPRN service name
Context	**configure** service nat nat-policy *external-named-item* pool router-instance *string*
Tree	router-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

port-limits

Synopsis	Enter the **port-limits** context

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Context	**configure** service nat nat-policy *external-named-item* port-limits
Tree	port-limits
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-ports *number*

Synopsis	Maximum number of dynamic ports per subscriber
Context	**configure** service nat nat-policy *external-named-item* port-limits dynamic-ports *number*
Tree	dynamic-ports
Description	This command limits the number of ports per protocol on an outside IP address for a subscriber regardless of the pool pairing mode. This command applies to LSN44 pools with flexible port allocation.
Range	1 to 65536
Default	65536
Introduced	25.7.R1
Platforms	SAR Gen 2

forwarding *number*

Synopsis	Maximum number of port forwarding entries
Context	**configure** service nat nat-policy *external-named-item* port-limits forwarding *number*
Tree	forwarding
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

watermarks

Synopsis	Enable the **watermarks** context
Context	**configure** service nat nat-policy *external-named-item* port-limits watermarks
Tree	watermarks
Description	This command configures watermarks for NAT resources.
Introduced	25.3.R2
Platforms	SAR Gen 2

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high *number*

Synopsis	High watermark percentage
Context	**configure** service nat nat-policy *external-named-item* port-limits watermarks high *number*
Tree	high
Description	This command configures the high threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

low *number*

Synopsis	Low watermark percentage
Context	**configure** service nat nat-policy *external-named-item* port-limits watermarks low *number*
Tree	low
Description	This command configures the low threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

session-limits

Synopsis	Enter the **session-limits** context
Context	**configure** service nat nat-policy *external-named-item* session-limits
Tree	session-limits
Description	Commands in this context configure session-limit attributes for the policy.
Introduced	25.3.R2

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Platforms	SAR Gen 2

max *number*

Synopsis	Maximum number of sessions per subscriber
Context	**configure** service nat nat-policy *external-named-item* session-limits max *number*
Tree	max
Range	1 to 65535
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

watermarks

Synopsis	Enable the **watermarks** context
Context	**configure** service nat nat-policy *external-named-item* session-limits watermarks
Tree	watermarks
Description	This command configures watermarks for NAT resources.
Introduced	25.3.R2
Platforms	SAR Gen 2

high *number*

Synopsis	High watermark percentage
Context	**configure** service nat nat-policy *external-named-item* session-limits watermarks high *number*
Tree	high
Description	This command configures the high threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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low *number*

Synopsis	Low watermark percentage
Context	**configure** service nat nat-policy *external-named-item* session-limits watermarks low *number*
Tree	low
Description	This command configures the low threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp

Synopsis	Enter the **tcp** context
Context	**configure** service nat nat-policy *external-named-item* tcp
Tree	tcp
Description	Commands in this context configure the Transmission Control Protocol (TCP) attributes of the policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

mss-adjust *number*

Synopsis	TCP MSS adjustment value
Context	**configure** service nat nat-policy *external-named-item* tcp mss-adjust *number*
Tree	mss-adjust
Description	This command configures the value to use to adjust the TCP Maximum Segment Size (MSS) option, if not already present or the present value is higher.
Range	160 to 10240
Introduced	25.3.R2
Platforms	SAR Gen 2

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timeouts

Synopsis	Enter the **timeouts** context
Context	**configure** service nat nat-policy *external-named-item* timeouts
Tree	timeouts
Description	Commands in this context configure the attributes of session idle timeouts for the policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-query *number*

Synopsis	Timeout applied to an ICMP Query session
Context	**configure** service nat nat-policy *external-named-item* timeouts icmp-query *number*
Tree	icmp-query
Range	60 to 240
Units	seconds
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp

Synopsis	Enter the **tcp** context
Context	**configure** service nat nat-policy *external-named-item* timeouts tcp
Tree	tcp
Description	Commands in this context configure TCP timeout attributes.
Introduced	25.3.R2
Platforms	SAR Gen 2

established *number*

Synopsis	Idle timeout for TCP session in established state
Context	**configure** service nat nat-policy *external-named-item* timeouts tcp established *number*
Tree	established
Range	60 to 86400

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Units	seconds
Default	7440
Introduced	25.3.R2
Platforms	SAR Gen 2

syn *number*

Synopsis	TCP session timeout when synchronizing initial sequence
Context	**configure** service nat nat-policy *external-named-item* timeouts tcp syn *number*
Tree	syn
Range	6 to 86400
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

time-wait *number*

Synopsis	Timeout applied to a TCP session in the time-wait state
Context	**configure** service nat nat-policy *external-named-item* timeouts tcp time-wait *number*
Tree	time-wait
Range	0 to 240
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

transitory *number*

Synopsis	Idle timeout for TCP session in transitory state
Context	**configure** service nat nat-policy *external-named-item* timeouts tcp transitory *number*
Tree	transitory
Range	60 to 86400
Units	seconds

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Default	240
Introduced	25.3.R2
Platforms	SAR Gen 2

udp

Synopsis	Enter the **udp** context
Context	**configure** service nat nat-policy *external-named-item* timeouts udp
Tree	udp
Description	Commands in this context configure the User Datagram Protocol (UDP) mapping timeout attributes.
Introduced	25.3.R2
Platforms	SAR Gen 2

dns *number*

Synopsis	Timeout applied to UDP session with destination port 53
Context	**configure** service nat nat-policy *external-named-item* timeouts udp dns *number*
Tree	dns
Range	15 to 86400
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

initial *number*

Synopsis	UDP mapping timeout applied to new sessions
Context	**configure** service nat nat-policy *external-named-item* timeouts udp initial *number*
Tree	initial
Range	10 to 300
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

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normal *number*

Synopsis	UDP mapping timeout
Context	**configure** service nat nat-policy *external-named-item* timeouts udp normal *number*
Tree	normal
Range	60 to 86400
Units	seconds
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

udp

Synopsis	Enter the **udp** context
Context	**configure** service nat nat-policy *external-named-item* udp
Tree	udp
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound-refresh *boolean*

Synopsis	Extend UDP session timeout on inbound traffic
Context	**configure** service nat nat-policy *external-named-item* udp inbound-refresh *boolean*
Tree	inbound-refresh
Description	When configured to **true**, the router extends the UDP session timeout on inbound traffic. When configured to **false**, the router does not extend the UDP session timeout.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group [name] *named-item*

Synopsis	Enter the **oper-group** list instance
Context	**configure** service oper-group *named-item*
Tree	oper-group

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Max. instances	32768
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Operational group name
Context	**configure** service oper-group *named-item*
Tree	oper-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service oper-group *named-item* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-unicast-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Destination address for BFD
Context	**configure** service oper-group *named-item* bfd-liveness dest-ip *ipv4-unicast-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Source interface name
Context	**configure** service oper-group *named-item* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Routing context used for route lookup
Context	**configure** service oper-group *named-item* bfd-liveness router-instance *string*
Tree	router-instance
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service oper-group *named-item* hold-time
Tree	hold-time
Introduced	25.3.R2

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Platforms	SAR Gen 2

down *number*

Synopsis	Oper group hold down time
Context	**configure** service oper-group *named-item* hold-time down *number*
Tree	down
Range	1 to 3600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up *number*

Synopsis	Oper group hold up time
Context	**configure** service oper-group *named-item* hold-time up *number*
Tree	up
Range	0 to 3600
Units	seconds
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-arp-nd

Synopsis	Enter the **proxy-arp-nd** context
Context	**configure** service proxy-arp-nd
Tree	proxy-arp-nd
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-list

Synopsis	Enter the **mac-list** context
Context	**configure** service proxy-arp-nd mac-list

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Tree	mac-list
Introduced	25.3.R2
Platforms	SAR Gen 2

list [list-name] *named-item*

Synopsis	Enter the **list** list instance
Context	**configure** service proxy-arp-nd mac-list list *named-item*
Tree	list
Introduced	25.3.R2
Platforms	SAR Gen 2

[**list-name**] *named-item*

Synopsis	Specify name for mac list
Context	**configure** service proxy-arp-nd mac-list list *named-item*
Tree	list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [address] *mac-unicast-address-no-zero*

Synopsis	Add a list entry for **mac**
Context	**configure** service proxy-arp-nd mac-list list *named-item* mac *mac-unicast-address-no-zero*
Tree	mac
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**address**] *mac-unicast-address-no-zero*

Synopsis	MAC address to be added to the list
Context	**configure** service proxy-arp-nd mac-list list *named-item* mac *mac-unicast-address-no-zero*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-template [pw-template-name] *pw-template-name*

Synopsis	Enter the **pw-template** list instance
Context	**configure** service pw-template *pw-template-name*
Tree	pw-template
Max. instances	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pw-template-name**] *pw-template-name*

Synopsis	SDP template name
Context	**configure** service pw-template *pw-template-name*
Tree	pw-template
String length	1 to 64
String format	'pw-template-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *number*

Synopsis	Accounting policy

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Context	**configure** service pw-template *pw-template-name* accounting-policy *number*
Tree	accounting-policy
Range	1 to 99
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-fragmentation *boolean*

Synopsis	Allow packets to be sent without setting DF bit
Context	**configure** service pw-template *pw-template-name* allow-fragmentation *boolean*
Tree	allow-fragmentation
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-gre-sdp *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Use a GRE tunnel to automatically create an SDP
Context	**configure** service pw-template *pw-template-name* auto-gre-sdp *boolean*
Tree	auto-gre-sdp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

block-on-peer-fault *boolean*

Synopsis	Enable block traffic on peer fault
Context	**configure** service pw-template *pw-template-name* block-on-peer-fault *boolean*
Tree	block-on-peer-fault
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect statistics
Context	**configure** service pw-template *pw-template-name* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

Synopsis	Enable/Disable the use of ControlWord
Context	**configure** service pw-template *pw-template-name* control-word *boolean*
Tree	control-word
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service pw-template *pw-template-name* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service pw-template *pw-template-name* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip *named-item-64*

Synopsis	IPv4 filter policy name
Context	**configure** service pw-template *pw-template-name* egress filter ip *named-item-64*
Tree	ip
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *named-item-64*

Synopsis	IPv6 filter policy name
Context	**configure** service pw-template *pw-template-name* egress filter ipv6 *named-item-64*
Tree	ipv6
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *named-item-64*

Synopsis	MAC filter policy name
Context	**configure** service pw-template *pw-template-name* egress filter mac *named-item-64*
Tree	mac
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mfib-allowed-mda-destinations

Synopsis	Enter the **mfib-allowed-mda-destinations** context
Context	**configure** service pw-template *pw-template-name* egress mfib-allowed-mda-destinations

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Tree	mfib-allowed-mda-destinations
Introduced	25.3.R2
Platforms	SAR Gen 2

mda [mda-id] *slot-mda*

Synopsis	Add a list entry for **mda**
Context	**configure** service pw-template *pw-template-name* egress mfib-allowed-mda-destinations mda *slot-mda*
Tree	mda
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mda-id**] *slot-mda*

Synopsis	MFIB allowed MDA destination
Context	**configure** service pw-template *pw-template-name* egress mfib-allowed-mda-destinations mda *slot-mda*
Tree	mda
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service pw-template *pw-template-name* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service pw-template *pw-template-name* egress qos network
Tree	network

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Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *named-item-64*

Synopsis	Network policy ID
Context	**configure** service pw-template *pw-template-name* egress qos network policy-name *named-item-64*
Tree	policy-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service pw-template *pw-template-name* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *named-item*

Synopsis	Name of the egress port queue group template
Context	**configure** service pw-template *pw-template-name* egress qos network port-redirect-group group-name *named-item*
Tree	group-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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instance *number*

Synopsis	Instance for FP ingress queue group
Context	**configure** service pw-template *pw-template-name* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-keygroup

Synopsis	Enter the **encryption-keygroup** context
Context	**configure** service pw-template *pw-template-name* encryption-keygroup
Tree	encryption-keygroup
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound *number*

Synopsis	Keygroup identifier in the inbound direction
Context	**configure** service pw-template *pw-template-name* encryption-keygroup inbound *number*
Tree	inbound
Range	1 to 127
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound *number*

Synopsis	Keygroup identifier in the outbound direction
Context	**configure** service pw-template *pw-template-name* encryption-keygroup outbound *number*
Tree	outbound
Range	1 to 127
Introduced	25.3.R2
Platforms	SAR Gen 2

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entropy-label

Synopsis	Enable the use of an entropy label
Context	**configure** service pw-template *pw-template-name* entropy-label
Tree	entropy-label
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service pw-template *pw-template-name* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Enable automatic update of MAC protect list
Context	**configure** service pw-template *pw-template-name* fdb auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect-exclude-list *named-item*

Synopsis	Name of the MAC protect exclusion list
Context	**configure** service pw-template *pw-template-name* fdb auto-learn-mac-protect-exclude-list *named-item*
Tree	auto-learn-mac-protect-exclude-list
Description	This command configures the name of a MAC protect exclusion list. Dynamically-learned MAC Source Addresses (SA) are protected if they are learned on an object with ALMP configured and no exclusion list is associated with the object, or if the MAC SA does not match any entry in an associated exclusion list.

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An exclusion list can be used in multiple objects of a service. If a list is empty, ALMP does not exclude any learned MAC SAs from protection on the object.

String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-unknown-source *boolean*

Synopsis	Discard frames with unknown source
Context	**configure** service pw-template *pw-template-name* fdb discard-unknown-source *boolean*
Tree	discard-unknown-source
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

limit-mac-move *keyword*

Synopsis	MAC move limit
Context	**configure** service pw-template *pw-template-name* fdb limit-mac-move *keyword*
Tree	limit-mac-move
Options	blockable, non-blockable
Default	blockable
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-learning

Synopsis	Enter the **mac-learning** context
Context	**configure** service pw-template *pw-template-name* fdb mac-learning
Tree	mac-learning
Introduced	25.3.R2
Platforms	SAR Gen 2

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aging *boolean*

Synopsis	Enable aging of MAC addresses
Context	**configure** service pw-template *pw-template-name* fdb mac-learning aging *boolean*
Tree	aging
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

learning *boolean*

Synopsis	Enable learning of new MAC addresses
Context	**configure** service pw-template *pw-template-name* fdb mac-learning learning *boolean*
Tree	learning
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-pinning *boolean*

Synopsis	Enable MAC address pinning on this spoke SDP
Context	**configure** service pw-template *pw-template-name* fdb mac-pinning *boolean*
Tree	mac-pinning
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-mac-addresses *number*

Synopsis	Maximum number of MAC address entries in the FDB
Context	**configure** service pw-template *pw-template-name* fdb maximum-mac-addresses *number*
Tree	maximum-mac-addresses
Description	This command specifies the maximum number of FDB entries for both learned and static MAC addresses for this PW template.

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When the configured limit is reached, no new addresses are learned from the SAP or spoke SDP until at least one FDB entry is aged out or cleared.

When the configured limit is reached and the **configure service pw-template fdb discard-unknown-source** command is set to **true** for this PW template, packets with unknown source MAC addresses are discarded. If **discard-unknown-source** is set to **false**, the packets are forwarded if their destination MAC addresses are known, or flooded if their destination MAC addresses are unknown.

However, if the **configure service vpls fdb discard-unknown** command is set to **true**, packets with unknown destination MAC addresses are discarded, even if the limit of FDB entries on the specific VPLS instance is not reached.

When unconfigured, the PW template uses the global MAC learning limitations.

Range 1 to 511999

Introduced 25.3.R2

Platforms SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis Action taken after a relearn request for protected MAC

Context **configure** service pw-template *pw-template-name* fdb protected-src-mac-violation-action *keyword*

Tree protected-src-mac-violation-action

Description This command configures how the system handles relearn requests for protected MAC addresses.

Options sdp-bind-oper-down, alarm-only, discard

Introduced 25.3.R2

Platforms SAR Gen 2

force-vc-forwarding *keyword*

Synopsis VLAN tag processing action

Context **configure** service pw-template *pw-template-name* force-vc-forwarding *keyword*

Tree force-vc-forwarding

Description This command configures the VLAN tag processing used on the service.

The **vlan** option configures the router to preserve the VLAN ID and 802.1p bits of the service-delimiting qtag in a new tag, which is sent in the customer frame to the EVPN destinations.

The **qinq-c-tag-c-tag** option configures the router to pushes two tags with the same value derived from the inner service delimiting tag. At network ingress, two VLAN tags are extracted at most and the C-tag and S-tag p/de bits are propagated to the egress SAPs.

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The **qinq-s-tag-c-tag** option configures the router to push two tags that are copied from the QinQ service-delimiting VLAN values and may be different. At network ingress, two VLAN tags are extracted at most and the p/de bits are propagated to the egress SAP service-delimiting S-tag and C-tag respectively.

Options
vlan – Push VLAN ID and 802.1p bits of service-delimiting qtag
qinq-c-tag-c-tag – Push two tags identical to inner service-delimiting tag
qinq-s-tag-c-tag – Push two tags based on QinQ service-delimiting values

Introduced 25.3.R2

Platforms SAR Gen 2

hash-label

Synopsis Enable the **hash-label** context

Context **configure** service pw-template *pw-template-name* hash-label

Tree hash-label

Description Commands in this context configure the use of hash labels for egress datapaths.

For information about hash-label handling, see the "Hash labels" section of the *7705 SAR Gen 2 MPLS Guide*.

Notes The following elements are part of a choice: **entropy-label** or **hash-label**.

Introduced 25.3.R2

Platforms SAR Gen 2

signal-capability

Synopsis Signal hash label capability to the remote PE

Context **configure** service pw-template *pw-template-name* hash-label signal-capability

Tree signal-capability

Description When configured, this command enables the signaling and negotiating of the hash label between the local and remote PE nodes.

The signaling process outcome determines whether the local PE inserts the hash label on the user packets. This outcome can override the local PE configuration. The node must withdraw the label it sent to its peer and send a new label mapping message with the new value of the F-bit in the flow label interface option sub-TLV of the pseudowire ID FEC element.

Introduced 25.3.R2

Platforms SAR Gen 2

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igmp-snooping

Synopsis	Enter the **igmp-snooping** context
Context	**configure** service pw-template *pw-template-name* igmp-snooping
Tree	igmp-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-leave *boolean*

Synopsis	Allow IGMP fast leave processing
Context	**configure** service pw-template *pw-template-name* igmp-snooping fast-leave *boolean*
Tree	fast-leave
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *named-item*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service pw-template *pw-template-name* igmp-snooping import-policy *named-item*
Tree	import-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum multicast groups
Context	**configure** service pw-template *pw-template-name* igmp-snooping maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 1000
Introduced	25.3.R2

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Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service pw-template *pw-template-name* igmp-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service pw-template *pw-template-name* igmp-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service pw-template *pw-template-name* igmp-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2

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Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service pw-template *pw-template-name* igmp-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service pw-template *pw-template-name* igmp-snooping send-queries *boolean*
Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	IGMP version
Context	**configure** service pw-template *pw-template-name* igmp-snooping version *keyword*
Tree	version
Options	1, 2, 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service pw-template *pw-template-name* ingress

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Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service pw-template *pw-template-name* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *named-item-64*

Synopsis	IPv4 filter policy name
Context	**configure** service pw-template *pw-template-name* ingress filter ip *named-item-64*
Tree	ip
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *named-item-64*

Synopsis	IPv6 filter policy name
Context	**configure** service pw-template *pw-template-name* ingress filter ipv6 *named-item-64*
Tree	ipv6
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *named-item-64*

Synopsis	MAC filter policy name

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Context	**configure** service pw-template *pw-template-name* ingress filter mac *named-item-64*
Tree	mac
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service pw-template *pw-template-name* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service pw-template *pw-template-name* ingress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service pw-template *pw-template-name* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *named-item*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service pw-template *pw-template-name* ingress qos network fp-redirect-group group-name *named-item*

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Tree	group-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance for FP ingress queue group
Context	**configure** service pw-template *pw-template-name* ingress qos network fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *named-item-64*

Synopsis	Network policy ID
Context	**configure** service pw-template *pw-template-name* ingress qos network policy-name *named-item-64*
Tree	policy-name
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

l2pt

Synopsis	Enter the **l2pt** context
Context	**configure** service pw-template *pw-template-name* l2pt
Tree	l2pt
Introduced	25.3.R2
Platforms	SAR Gen 2

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termination

Synopsis	Enable the **termination** context
Context	**configure** service pw-template *pw-template-name* l2pt termination
Tree	termination
Introduced	25.3.R2
Platforms	SAR Gen 2

protocols

Synopsis	Enter the **protocols** context
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols
Tree	protocols
Introduced	25.3.R2
Platforms	SAR Gen 2

cdp *boolean*

Synopsis	Enable Cisco discovery protocol
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols cdp *boolean*
Tree	cdp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dtp *boolean*

Synopsis	Enable dynamic trunking protocol
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols dtp *boolean*
Tree	dtp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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pagp *boolean*

Synopsis	Enable port aggregation protocol
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols pagp *boolean*
Tree	pagp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

stp *boolean*

Synopsis	Enable all spanning tree protocols
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols stp *boolean*
Tree	stp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

udld *boolean*

Synopsis	Enable unidirectional link detection
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols udld *boolean*
Tree	udld
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vtp *boolean*

Synopsis	Enable virtual trunk protocol
Context	**configure** service pw-template *pw-template-name* l2pt termination protocols vtp *boolean*
Tree	vtp

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu *number*

Synopsis	MTU the SDP can transmit
Context	**configure** service pw-template *pw-template-name* path-mtu *number*
Tree	path-mtu
Description	This command configures the path MTU that the SDP can transmit. When an SDP created using the PW template is in use by a service, the path MTU cannot be modified. When not configured, the path MTU is derived from the network interface IP MTU.
Range	576 to 9782
Introduced	25.3.R2
Platforms	SAR Gen 2

provisioned-sdp *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Provisioned SDP type
Context	**configure** service pw-template *pw-template-name* provisioned-sdp *keyword*
Tree	provisioned-sdp
Options	use, prefer
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-template-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	PW template ID

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Context	**configure** service pw-template *pw-template-name* pw-template-id *number*
Tree	pw-template-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-exclude [group-name] *reference*

Synopsis	Add a list entry for **sdp-exclude**
Context	**configure** service pw-template *pw-template-name* sdp-exclude *reference*
Tree	sdp-exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	SDP group name
Context	**configure** service pw-template *pw-template-name* sdp-exclude *reference*
Tree	sdp-exclude
Reference	**configure** service sdp-group group-name *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-include [group-name] *reference*

Synopsis	Add a list entry for **sdp-include**
Context	**configure** service pw-template *pw-template-name* sdp-include *reference*
Tree	sdp-include
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	SDP group name

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Context	**configure** service pw-template *pw-template-name* sdp-include *reference*
Tree	sdp-include
Reference	**configure** service sdp-group group-name *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon-group

Synopsis	Enter the **split-horizon-group** context
Context	**configure** service pw-template *pw-template-name* split-horizon-group
Tree	split-horizon-group
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service pw-template *pw-template-name* split-horizon-group description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service pw-template *pw-template-name* split-horizon-group fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

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saps

Synopsis	Enter the **saps** context
Context	**configure** service pw-template *pw-template-name* split-horizon-group fdb saps
Tree	saps
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Enable automatic update of MAC protect list
Context	**configure** service pw-template *pw-template-name* split-horizon-group fdb saps auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-unprotected-dest-mac *boolean*

Synopsis	Enable/disable unprotected dest MAC restriction
Context	**configure** service pw-template *pw-template-name* split-horizon-group fdb saps discard-unprotected-dest-mac *boolean*
Tree	discard-unprotected-dest-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis	Action taken after a relearn request for protected MAC
Context	**configure** service pw-template *pw-template-name* split-horizon-group fdb saps protected-src-mac-violation-action *keyword*
Tree	protected-src-mac-violation-action
Description	This command configures how the system handles relearn requests for protected MAC addresses.

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Options	sap-oper-down, alarm-only, discard
Introduced	25.3.R2
Platforms	SAR Gen 2

name *named-item*

Synopsis	Split horizon group name to which the SDP belongs
Context	**configure** service pw-template *pw-template-name* split-horizon-group name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

stp

Synopsis	Enter the **stp** context
Context	**configure** service pw-template *pw-template-name* stp
Tree	stp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of STP
Context	**configure** service pw-template *pw-template-name* stp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-edge *boolean*

Synopsis	Enable automatic detection of edge port characteristics
Context	**configure** service pw-template *pw-template-name* stp auto-edge *boolean*

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Tree	auto-edge
Description	When configured to **true**, the router automatically detects the edge port characteristics of the SAP or spoke SDP. The STP concludes there is no bridge behind the spoke SDP, the OPER_EDGE variable is dynamically set to **true**. If a BPDU is received, the OPER_EDGE variable is dynamically set to **false**. When configured to **false**, the router disables automatic detection.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

edge-port *boolean*

Synopsis	Designate SAP or SDP as an edge port
Context	**configure** service pw-template *pw-template-name* stp edge-port *boolean*
Tree	edge-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

link-type *keyword*

Synopsis	Configure STP link-type
Context	**configure** service pw-template *pw-template-name* stp link-type *keyword*
Tree	link-type
Options	pt-pt, shared
Default	pt-pt
Introduced	25.3.R2
Platforms	SAR Gen 2

path-cost *number*

Synopsis	Configure path-cost
Context	**configure** service pw-template *pw-template-name* stp path-cost *number*
Tree	path-cost
Range	1 to 200000000

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Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Configure STP priority
Context	**configure** service pw-template *pw-template-name* stp priority *number*
Tree	priority
Range	0 to 255
Default	128
Introduced	25.3.R2
Platforms	SAR Gen 2

root-guard *boolean*

Synopsis	Enable/disable STP root-guard
Context	**configure** service pw-template *pw-template-name* stp root-guard *boolean*
Tree	root-guard
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-type *keyword*

Synopsis	Virtual circuit type associated with the SDP bind
Context	**configure** service pw-template *pw-template-name* vc-type *keyword*
Tree	vc-type
Options	ether, vlan
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

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vlan-vc-tag *number*

Synopsis	VLAN VC tag
Context	**configure** service pw-template *pw-template-name* vlan-vc-tag *number*
Tree	vlan-vc-tag
Range	0 to 4094
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp [sdp-id] *number*

Synopsis	Enter the **sdp** list instance
Context	**configure** service sdp *number*
Tree	sdp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-id**] *number*

Synopsis	Service Destination Point (SDP) ID
Context	**configure** service sdp *number*
Tree	sdp
Range	1 to 32767
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy associated with an SDP
Context	**configure** service sdp *number* accounting-policy *reference*
Tree	accounting-policy
Description	This command associates an accounting policy with an SDP. When unconfigured, there is no accounting policy applied to the SDP.
Reference	**configure** log accounting-policy *number*

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP
Context	**configure** service sdp *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-mtu-override *boolean*

Synopsis	Override the advertised VC-type MTU using the SDP ID
Context	**configure** service sdp *number* adv-mtu-override *boolean*
Tree	adv-mtu-override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-fragmentation *boolean*

Synopsis	Allow packets to be sent without setting DF bit
Context	**configure** service sdp *number* allow-fragmentation *boolean*
Tree	allow-fragmentation
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-tunnel *boolean*

Synopsis	Allow use of BGP route tunnels to reach far-end nodes
Context	**configure** service sdp *number* bgp-tunnel *boolean*

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Tree	bgp-tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

booking-factor *number*

Synopsis	Percentage of SDP max available bandwidth for VLL CAC
Context	**configure** service sdp *number* booking-factor *number*
Tree	booking-factor
Range	0 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting statistics for this SDP
Context	**configure** service sdp *number* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

delivery-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Delivery type used by the SDP
Context	**configure** service sdp *number* delivery-type *keyword*
Tree	delivery-type
Options	gre, mpls, l2tpv3, gre-eth-bridged
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service sdp *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

far-end

Synopsis	Enter the **far-end** context
Context	**configure** service sdp *number* far-end
Tree	far-end
Description	Commands in this context configure the system IP address of the far-end destination router for the SDP that is the termination point for a service.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IP address of the far-end destination router
Context	**configure** service sdp *number* far-end ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Description	This command configures the system IPv4 or IPv6 address of the far-end destination router for the SDP that is the termination point for a service.
Introduced	25.3.R2
Platforms	SAR Gen 2

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keep-alive

Synopsis	Enter the **keep-alive** context
Context	**configure** service sdp *number* keep-alive
Tree	keep-alive
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of keepalive mechanism for the SDP
Context	**configure** service sdp *number* keep-alive admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time period between SDP keepalive messages
Context	**configure** service sdp *number* keep-alive hello-time *number*
Tree	hello-time
Range	1 to 3600
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down-time *number*

Synopsis	Minimum time the SDP remains in the down state

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Context	**configure** service sdp *number* keep-alive hold-down-time *number*
Tree	hold-down-time
Range	0 to 3600
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-drop-count *number*

Synopsis	Maximum failed request attempts when SDP is down
Context	**configure** service sdp *number* keep-alive maximum-drop-count *number*
Tree	maximum-drop-count
Range	1 to 5
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

message-length *number*

Synopsis	Length of the keepalive request messages transmitted
Context	**configure** service sdp *number* keep-alive message-length *number*
Tree	message-length
Range	40 to 9198
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time SDP waits before tearing down the session
Context	**configure** service sdp *number* keep-alive timeout *number*
Tree	timeout
Range	1 to 10
Units	seconds
Default	5

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Introduced	25.3.R2
Platforms	SAR Gen 2

ldp *boolean*

WARNING:
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Synopsis	Enable LDP-signaled LSPs
Context	**configure** service sdp *number* ldp *boolean*
Tree	ldp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-end *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local end address of the tunnel defined by the SDP
Context	**configure** service sdp *number* local-end *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-end
Description	This command configures the local-end address of the following SDP encapsulation types: • IPv6 address of the termination point of an SDP of encapsulation type **l2tpv3** (L2TP v3 tunnel) • IPv4/IPv6 source address of an SDP of encapsulation type **gre-eth-bridged** (L2oGRE SDP) • IPv4/IPv6 source address of an SDP of encapsulation type **gre** (GRE SDP)
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp [lsp-name] *named-item-64*

Synopsis	Add a list entry for **lsp**

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Context	**configure** service sdp *number* lsp *named-item-64*
Tree	lsp
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lsp-name**] *named-item-64*

Synopsis	LSP name to associate with the SDP
Context	**configure** service sdp *number* lsp *named-item-64*
Tree	lsp
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Metric used in tunnel table manager for decision making
Context	**configure** service sdp *number* metric *number*
Tree	metric
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mixed-lsp-mode

Synopsis	Enable the **mixed-lsp-mode** context
Context	**configure** service sdp *number* mixed-lsp-mode
Tree	mixed-lsp-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

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revert-time *(number | keyword)*

Synopsis	Delay before SDP can revert to higher priority LSP type
Context	**configure** service sdp *number* mixed-lsp-mode revert-time *(number | keyword)*
Tree	revert-time
Range	1 to 600
Units	seconds
Options	never, immediate
Default	immediate
Introduced	25.3.R2
Platforms	SAR Gen 2

network-domain *reference*

Synopsis	Network domain name associated with the SDP
Context	**configure** service sdp *number* network-domain *reference*
Tree	network-domain
Reference	**configure** router *named-item-64* network-domains network-domain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu *number*

Synopsis	Maximum Transmission Unit (MTU) the SDP can transmit
Context	**configure** service sdp *number* path-mtu *number*
Tree	path-mtu
Range	576 to 9782
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-group [group-name] *reference*

Synopsis	Add a list entry for **sdp-group**
Context	**configure** service sdp *number* sdp-group *reference*

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Tree	sdp-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *reference*

Synopsis	SDP administrative group name
Context	**configure** service sdp *number* sdp-group *reference*
Tree	sdp-group
Reference	**configure** service sdp-group group-name *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

signaling *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Signaling protocol used to obtain pseudowire labels
Context	**configure** service sdp *number* signaling *keyword*
Tree	signaling
Description	This command specifies the signaling protocol used to obtain the ingress and egress pseudowire labels in frames transmitted and received on the SDP. The signaling value can only be changed while the administrative status of the SDP is down. Additionally, the signaling can only be changed on an SDP if the SDP is not in use by BGP-AD or BGP-VPLS. BGP signaling can only be enabled if the SDP does not already have pseudowires signaled over it. Also, BGP signaling is not supported with mixed mode LSP SDPs. **Note**: If the **tldp** option is selected as the mechanism for exchanging service labels over an MPLS or GRE SDP and the T-LDP session is automatically established, an explicit T-LDP session that is subsequently configured takes precedence over the automatic T-LDP session. However, if the explicit, manually-configured session is then removed, the system does not revert to the automatic session and the automatic session is also deleted. To address this, recreate the T-LDP session by using the **admin-state** command to administratively disable and then enable the SDP.
Options	off, tldp, bgp
Introduced	25.3.R2

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Platforms	SAR Gen 2

sr-isis *boolean*

Synopsis	Enable Segment Routing for IS-IS
Context	**configure** service sdp *number* sr-isis *boolean*
Tree	sr-isis
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf *boolean*

Synopsis	Enable an MPLS SDP of LSP type OSPF Segment Routing
Context	**configure** service sdp *number* sr-ospf *boolean*
Tree	sr-ospf
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-far-end *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System address of the far-end router for the SDP
Context	**configure** service sdp *number* tunnel-far-end *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	tunnel-far-end
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-vc-etype *etype-value*

Synopsis	VLAN VC Ethertype

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Context	**configure** service sdp *number* vlan-vc-etype *etype-value*
Tree	vlan-vc-etype
String length	5 to 6
Default	0x8100
String format	'etype-value' must be 0x0600-0xFFFF (e-type range)
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Allow weighted load-balancing on an SDP
Context	**configure** service sdp *number* weighted-ecmp *boolean*
Tree	weighted-ecmp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sdp-group

Synopsis	Enter the **sdp-group** context
Context	**configure** service sdp-group
Tree	sdp-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name [group-name] *named-item*

Synopsis	Enter the **group-name** list instance
Context	**configure** service sdp-group group-name *named-item*
Tree	group-name
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**group-name**] *named-item*

Synopsis	SDP administrative group name
Context	**configure** service sdp-group group-name *named-item*
Tree	group-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Unique group value associated with the SDP admin group
Context	**configure** service sdp-group group-name *named-item* value *number*
Tree	value
Range	0 to 31
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

system

Synopsis	Enter the **system** context
Context	**configure** service system
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp

Synopsis	Enter the **bgp** context

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Context	**configure** service system bgp
Tree	bgp
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** service system bgp evpn
Tree	evpn
Description	Commands in this context configure BGP EVPN options.
Introduced	25.3.R2
Platforms	SAR Gen 2

ad-per-es-route

Synopsis	Enter the **ad-per-es-route** context
Context	**configure** service system bgp evpn ad-per-es-route
Tree	ad-per-es-route
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-evi-range *boolean*

Synopsis	Reserve extended RD comm-values for AD per-ES routes
Context	**configure** service system bgp evpn ad-per-es-route extended-evi-range *boolean*
Tree	extended-evi-range
Description	When configured to **true**, the system reserves the Route Distinguisher (RD) comm-values 1 to 65535 out of the type 1 RD that is used for AD per-ES routes. If **ad-per-es-route route-target-type** is also configured to **evi-route-target-set**, the system can pack the maximum number of EVI route targets in the AD per-ES routes When configured to **false**, this command only reserves comm-values 1 to 512.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-distinguisher-ip-address *ipv4-address*

Synopsis	IP address for route distinguisher for EVPN AD-ES routes
Context	**configure** service system bgp evpn ad-per-es-route route-distinguisher-ip-address *ipv4-address*
Tree	route-distinguisher-ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target-type *keyword*

Synopsis	Method for the AD per-ES routes advertisement
Context	**configure** service system bgp evpn ad-per-es-route route-target-type *keyword*
Tree	route-target-type
Options	evi-route-target, evi-route-target-set
Default	evi-route-target
Introduced	25.3.R2
Platforms	SAR Gen 2

ad-per-evi-routes

Synopsis	Enter the **ad-per-evi-routes** context
Context	**configure** service system bgp evpn ad-per-evi-routes
Tree	ad-per-evi-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

attribute-propagation *boolean*

Synopsis	Enable propagation of BGP path attributes
Context	**configure** service system bgp evpn ad-per-evi-routes attribute-propagation *boolean*
Tree	attribute-propagation
Description	When configured to **true**, the router propagates the attributes in multi-instance Epipe services.

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When configured to **false**, the router disables the propagation of the attributes, including D-PATH, even if the **domain-id** is configured in the service.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

bgp-path-selection *boolean*

Synopsis Enable BGP path selection

Context **configure** service system bgp evpn ad-per-evi-routes bgp-path-selection *boolean*

Tree bgp-path-selection

Description When configured to **true**, the router compares the received EVPN VPWS AD per-EVI routes based on the BGP path attributes.

The **attribute-propagation** command must be configured to **true**.

When configured to **false**, the router does not compare the routes.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

d-path-ignore *boolean*

Synopsis Ignore D-PATH for BGP path selection

Context **configure** service system bgp evpn ad-per-evi-routes d-path-ignore *boolean*

Tree d-path-ignore

Description When configured to **true**, the router ignores the Domain PATH attribute (D-PATH) when BGP computes the best path selection for received routes.

When configured to **false**, the router considers the D-PATH length and value as a tiebreaker in determining the best-path selection. In accordance with *draft-sr-bess-evpn-dpath*, the router compares the D-PATH attribute received in AD per-EVI routes with the same key (same or different RD) as follows:

- Routes with the shortest D-PATH are preferred; therefore, routes not tied for the shortest D-PATH are removed. Routes without D-PATH are considered zero-length D-PATH.
- Routes with the numerically lowest left-most Domain-ID are preferred; therefore, routes not tied for the numerically lowest left-most Domain-ID are removed from consideration.

Default false

Introduced 25.3.R2

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Platforms	SAR Gen 2

ip-prefix-routes

Synopsis	Enter the **ip-prefix-routes** context
Context	**configure** service system bgp evpn ip-prefix-routes
Tree	ip-prefix-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-ful

Synopsis	Enter the **interface-ful** context
Context	**configure** service system bgp evpn ip-prefix-routes interface-ful
Tree	interface-ful
Description	Commands in this context configure IP prefix routes for Interface-ful (IFF) configurations.
Introduced	25.3.R2
Platforms	SAR Gen 2

attribute-uniform-propagation *boolean*

Synopsis	Enable attribute uniform propagation
Context	**configure** service system bgp evpn ip-prefix-routes interface-ful attribute-uniform-propagation *boolean*
Tree	attribute-uniform-propagation
Description	When configured to **true**, the system enables the uniform propagation of BGP attributes for EVPN-IFF routes. When configured to **false**, the system re-originates the BGP path attributes when propagating EVPN-IFF routes into other inter-subnet forwarding families.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-path-selection *boolean*

Synopsis	Enable BGP path selection

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Context	**configure** service system bgp evpn ip-prefix-routes interface-ful bgp-path-selection *boolean*
Tree	bgp-path-selection
Description	When configured to **true**, the system enables BGP path selection for EVPN-IFF routes. The EVPN-IFF routes are ordered and selected in a similar manner as IP-VPN or EVPN-IFL routes, that is, based on the regular BGP path selection process. When configured to **false**, the system orders EVPN-IFF routes based on their {R-VPLS Ifindex, RD, Ethernet Tag}. For example, if two EVPN-IFF routes with different Route Distinguishers (RDs) are received for the same prefix on the same R-VPLS, the route with the lowest RD is selected.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

d-path-length-ignore *boolean*

Synopsis	Ignore the D-PATH length when using BGP path selection
Context	**configure** service system bgp evpn ip-prefix-routes interface-ful d-path-length-ignore *boolean*
Tree	d-path-length-ignore
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls

Synopsis	Enter the **mpls** context
Context	**configure** service system bgp evpn mpls
Tree	mpls
Introduced	26.3.R1
Platforms	SAR Gen 2

multicast-leave-sync-propagation *number*

Synopsis	Multicast leave group synchronization delay
Context	**configure** service system bgp evpn multicast-leave-sync-propagation *number*
Tree	multicast-leave-sync-propagation

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Description	This command configures the additional amount of time that the system waits before removing a multicast state that was synchronized in an Ethernet Segment via Multicast Join or Leave Synch routes. This value represents a delta corresponding to the time it takes for a BGP advertisement to propagate to ES peers. The node triggering the route computes the maximum response time as the product of the locally configured values, Last Member Query Count and Last Member Query Interval, and adds the delta value to the maximum response time. The query count value is configured in the **configure services vrpn igmp robust-count** command. The query interval value is taken from the **configure service vpls sap igmp-snooping query-last-member-interval** or the **configure service vpls spoke-sdp igmp-snooping query-last-member-interval** configuration, depending on the Ethernet Segment. Increasing the maximum response time by this value can help minimize the churn of removing and recreating the state on the node. This value should be configured consistently in all ES peers.
Range	0 to 300
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-auto-rd-range

Synopsis	Enter the **bgp-auto-rd-range** context
Context	**configure** service system bgp-auto-rd-range
Tree	bgp-auto-rd-range
Introduced	25.3.R2
Platforms	SAR Gen 2

community-value

Synopsis	Enter the **community-value** context
Context	**configure** service system bgp-auto-rd-range community-value
Tree	community-value
Introduced	25.3.R2
Platforms	SAR Gen 2

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end *number*

Synopsis	Upper bound of BGP route distinguisher community range
Context	**configure** service system bgp-auto-rd-range community-value end *number*
Tree	end
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of BGP route distinguisher community range
Context	**configure** service system bgp-auto-rd-range community-value start *number*
Tree	start
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-address*

Synopsis	IP address used for selecting the route distinguisher
Context	**configure** service system bgp-auto-rd-range ip-address *ipv4-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service system fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

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table-size *number*

Synopsis	Maximum FDB entries in the system
Context	**configure** service system fdb table-size *number*
Tree	table-size
Description	This command configures the maximum system FDB table size, which is dependent on the chassis type. CPMs with at least 16 GB of memory are required when exceeding 500 000 MAC addresses in a system. This command cannot be set to a value lower than the default, which is chassis-dependent. The maximum system FDB table size also limits the maximum FDB table size of any card within the system. The command default depends on the chassis type and available memory.
Range	4095 to 2047999
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-gre-source-ip *ipv4-unicast-address*

Synopsis	VPN GRE source ip-address
Context	**configure** service system vpn-gre-source-ip *ipv4-unicast-address*
Tree	vpn-gre-source-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

vpls [service-name] *service-name*

Synopsis	Enter the **vpls** list instance
Context	**configure** service vpls *service-name*
Tree	vpls
Description	Commands in this context create or edit a Virtual Private LAN Services (VPLS) instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** service vpls *service-name*
Tree	vpls
Description	This command creates or edits a service instance. When a service is created, the **customer** keyword and *customer-id* must be specified and associates the service with a customer. The *customer-id* must already exist having been created using the customer command in the service context. When a service is created with a customer association, it is not possible to edit the customer association. The service must be deleted and re-created with a new customer association. When a service is created, the use of the **customer***customer-id* is optional to navigate into the service configuration context. If attempting to edit a service with the incorrect *customer-id* results in an error. This command specifies the unique service identification number identifying the service in the service domain. This ID must be unique to this service and may not be used for any other service of any type. The service ID must be the same number used for every platform on which this service is defined.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the service
Context	**configure** service vpls *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp [bgp-instance] *number*

Synopsis	Enter the **bgp** list instance
Context	**configure** service vpls *service-name* bgp *number*

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Tree	bgp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bgp-instance**] *number*

Synopsis	BGP instance
Context	**configure** service vpls *service-name* bgp *number*
Tree	bgp
Range	1 to 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-service-mtu *number*

Synopsis	Advertised service MTU value
Context	**configure** service vpls *service-name* bgp *number* adv-service-mtu *number*
Tree	adv-service-mtu
Description	This command configures the MTU signaled value used in the BGP for BGP-VPLS service and in the LDP for BGP-AD service. The router uses the value for signaling and for validation with the received MTU instead of the service MTU. However, the value does not affect the locally enforced value, which is still based on the service MTU.
Range	0 to 9782
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-template-binding [pw-template-name] *reference*

Synopsis	Enter the **pw-template-binding** list instance
Context	**configure** service vpls *service-name* bgp *number* pw-template-binding *reference*
Tree	pw-template-binding
Max. instances	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**pw-template-name**] *reference*

Synopsis	Policy name
Context	**configure** service vpls *service-name* bgp *number* pw-template-binding *reference*
Tree	pw-template-binding
Reference	**configure** service pw-template *pw-template-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-rt *route-target*

Synopsis	Import route-target communities
Context	**configure** service vpls *service-name* bgp *number* pw-template-binding *reference* import-rt *route-target*
Tree	import-rt
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group to monitor
Context	**configure** service vpls *service-name* bgp *number* pw-template-binding *reference* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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oper-group *reference*

Synopsis	Operational group
Context	**configure** service vpls *service-name* bgp *number* pw-template-binding *reference* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon-group *named-item*

Synopsis	Split horizon group
Context	**configure** service vpls *service-name* bgp *number* pw-template-binding *reference* split-horizon-group *named-item*
Tree	split-horizon-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

route-distinguisher *(keyword | vpn-route-distinguisher)*

Synopsis	High-order 6 bytes that are used as string to compose VSI-ID for use in NLRI
Context	**configure** service vpls *service-name* bgp *number* route-distinguisher *(keyword | vpn-route-distinguisher)*
Tree	route-distinguisher
Options	auto-rd
String format	'vpn-route-distinguisher' must be IP:comm or AS-number pair per RD rules
Introduced	25.3.R2
Platforms	SAR Gen 2

route-target

Synopsis	Enter the **route-target** context

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Context	**configure** service vpls *service-name* bgp *number* route-target
Tree	route-target
Introduced	25.3.R2
Platforms	SAR Gen 2

export *route-target*

Synopsis	Extended community name for default import policy
Context	**configure** service vpls *service-name* bgp *number* route-target export *route-target*
Tree	export
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Introduced	25.3.R2
Platforms	SAR Gen 2

import *route-target*

Synopsis	Extended community name for default import policy
Context	**configure** service vpls *service-name* bgp *number* route-target import *route-target*
Tree	import
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Introduced	25.3.R2
Platforms	SAR Gen 2

vsi-export *reference*

Synopsis	VSI export policies
Context	**configure** service vpls *service-name* bgp *number* vsi-export *reference*
Tree	vsi-export
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

vsi-import *reference*

Synopsis	VSI import policies
Context	**configure** service vpls *service-name* bgp *number* vsi-import *reference*
Tree	vsi-import
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ad

Synopsis	Enable the **bgp-ad** context
Context	**configure** service vpls *service-name* bgp-ad
Tree	bgp-ad
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BGP Auto-Discovery
Context	**configure** service vpls *service-name* bgp-ad admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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vpls-id *vpls-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	VPLS identifier as a 8-byte route distinguisher
Context	**configure** service vpls *service-name* bgp-ad vpls-id *vpls-id*
Tree	vpls-id
String format	'vpls-id' must be IP:comm or AS-number pair per RD rules
Introduced	25.3.R2
Platforms	SAR Gen 2

vsi-id-prefix *ipv4-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	VSI prefix value
Context	**configure** service vpls *service-name* bgp-ad vsi-id-prefix *ipv4-address*
Tree	vsi-id-prefix
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-evpn

Synopsis	Enable the **bgp-evpn** context
Context	**configure** service vpls *service-name* bgp-evpn
Tree	bgp-evpn
Description	Commands in this context to configure the BGP-EVPN options.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** service vpls *service-name* bgp-evpn dhcp
Tree	dhcp
Introduced	26.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* bgp-evpn dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

snoop *boolean*

Synopsis	Enable DHCP snooping on EVPN destinations
Context	**configure** service vpls *service-name* bgp-evpn dhcp snoop *boolean*
Tree	snoop
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** service vpls *service-name* bgp-evpn dhcp6
Tree	dhcp6
Introduced	26.7.R1
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* bgp-evpn dhcp6 description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

ldra

Synopsis	Enable the **ldra** context
Context	**configure** service vpls *service-name* bgp-evpn dhcp6 ldra
Tree	ldra
Introduced	26.7.R1
Platforms	SAR Gen 2

interface-type *keyword*

Synopsis	LDRA interface type
Context	**configure** service vpls *service-name* bgp-evpn dhcp6 ldra interface-type *keyword*
Tree	interface-type
Description	This command configures this end point as a client-facing or network-facing interface. BGP EVPN service tunnels must be configured as a network-facing interface.
Options	client-facing, network-facing
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

evi *number*

Synopsis	EVPN ID
Context	**configure** service vpls *service-name* bgp-evpn evi *number*
Tree	evi

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Description	This command configures a 2-byte EVPN instance (EVI) unique in the system. It is used for the service-carving algorithm for multi-homing and auto-deriving route target and route distinguishers. If not specified, the EVPN ID value is zero and no route distinguisher or route targets are auto-derived from it. If the EVI ID value is specified and no other **route-distinguisher** or **route-target** is configured in the service, the following rules apply: • the route distinguisher is derived from <system_ip>:evi • the route target is derived from <autonomous-system>:evi If VSI import and export policies are configured, the route target must be configured in the policies and those values take precedence over the auto-derived route targets. If **bgp-ad vpls-id** and **bgp-evpn evi** are both configured on the same service, the VPLS ID auto-derived route target or route distinguisher takes precedence over the values auto-derived from the EVI. Use the **show service id bgp** command to display the operational route target for a service.
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mtu-mismatch *boolean*

Synopsis	Ignore MTU mismatch
Context	**configure** service vpls *service-name* bgp-evpn ignore-mtu-mismatch *boolean*
Tree	ignore-mtu-mismatch
Description	When configured to **true**, the system ignores the received Layer 2 MTU in the L2 Attributes extended community of the IMET route for a peer. When configured to **false**, the system compares the local service MTU against the received Layer 2 MTU and if there is a mismatch, keeps the EVPN destination to the peer with operational state down.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

incl-mcast-orig-ip *ipv4-unicast-address*

Synopsis	Originating IP address
Context	**configure** service vpls *service-name* bgp-evpn incl-mcast-orig-ip *ipv4-unicast-address*
Tree	incl-mcast-orig-ip
String format	'ipv4-address' must use only digits and dots (no %zone)

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'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Introduced 25.3.R2

Platforms SAR Gen 2

mac-duplication

Synopsis Enter the **mac-duplication** context

Context **configure** service vpls *service-name* bgp-evpn mac-duplication

Tree mac-duplication

Description Commands in this context configure the BGP EVPN MAC duplication command options.

Introduced 25.3.R2

Platforms SAR Gen 2

blackhole *boolean*

Synopsis Use duplicated MAC as a black-hole MAC

Context **configure** service vpls *service-name* bgp-evpn mac-duplication blackhole *boolean*

Tree blackhole

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

detect

Synopsis Enter the **detect** context

Context **configure** service vpls *service-name* bgp-evpn mac-duplication detect

Tree detect

Description Commands in this context monitor the number of moves of a MAC address for a period of time (window).

Introduced 25.3.R2

Platforms SAR Gen 2

num-moves *number*

Synopsis BGP EVPN MAC duplication detection number of moves

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Context	**configure** service vpls *service-name* bgp-evpn mac-duplication detect num-moves *number*
Tree	num-moves
Range	3 to 10
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

trusted-mac-move-factor *number*

Synopsis	Trusted MAC move factor
Context	**configure** service vpls *service-name* bgp-evpn mac-duplication detect trusted-mac-move-factor *number*
Tree	trusted-mac-move-factor
Description	This command configures the factor by which the number of moves is multiplied when detecting a MAC duplication event for trusted MACs. For example, if the number of moves is 5 and the trusted MAC move factor is 3, 5 moves, within the window, is enough to declare a non-trusted MAC as duplicate. However, 15 moves are needed to declare a trusted MAC as duplicate. By default the factor for a trusted MAC is the same as for a non-trusted MAC. This provides a backwards compatible solution upon upgrade of the node.
Range	1 to 10
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

window *number*

Synopsis	BGP EVPN MAC duplication detection window
Context	**configure** service vpls *service-name* bgp-evpn mac-duplication detect window *number*
Tree	window
Range	1 to 15
Units	minutes
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

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retry *(number | keyword)*

Synopsis	BGP EVPN MAC duplication retry time
Context	**configure** service vpls *service-name* bgp-evpn mac-duplication retry *(number | keyword)*
Tree	retry
Range	2 to 60
Units	minutes
Options	never
Default	9
Introduced	25.3.R2
Platforms	SAR Gen 2

trusted-mac-time *number*

Synopsis	Trusted MAC time
Context	**configure** service vpls *service-name* bgp-evpn mac-duplication trusted-mac-time *number*
Tree	trusted-mac-time
Description	This command configures how long a MAC address needs to stay in the FDB as type learned without being flushed or changed in its type so the MAC is declared as trusted for the MAC duplication procedures. If the MAC changes from SAP to SAP within the same VPLS service and node, the MAC does not reset its trusted MAC timer.
Range	1 to 15
Units	minutes
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls [bgp-instance] *number*

Synopsis	Enter the **mpls** list instance
Context	**configure** service vpls *service-name* bgp-evpn mpls *number*
Tree	mpls
Description	Commands in this context configure the BGP-EVPN MPLS options.
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**bgp-instance**] *number*

Synopsis	BGP instance
Context	**configure** service vpls *service-name* bgp-evpn mpls *number*
Tree	mpls
Range	1 to 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BGP EVPN MPLS
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-bind-tunnel

Synopsis	Enter the **auto-bind-tunnel** context
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel
Tree	auto-bind-tunnel
Description	Commands in this context configure automatic binding of a VPRN service using tunnels to MP-BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-flex-algo-fallback *boolean*

Synopsis	Enable flexible algorithm fallback

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Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel allow-flex-algo-fallback *boolean*
Tree	allow-flex-algo-fallback
Description	When configured to **true**, a BGP router with a Flex-Algorithm action configured (via the **configure policy-options policy-statement entry action flex-algo** command) can resolve to a tunnel with algorithm 0 if no target Flex-Algorithm tunnel is available**.** When configured to **false**, the BGP router can resolve only to the intended Flex-Algorithm tunnel, which may cause traffic loss if no corresponding Flex-Algorithm tunnel is available.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ecmp *number*

Synopsis	Maximum ECMP routes information
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel ecmp *number*
Tree	ecmp
Range	1 to 32
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-strict-tunnel-tagging *boolean*

Synopsis	Enable/disable enforcement of strict tunnel tagging
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel enforce-strict-tunnel-tagging *boolean*
Tree	enforce-strict-tunnel-tagging
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-untagged-route *keyword*

Synopsis	Untagged route type enforcement

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Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel enforce-untagged-route *keyword*
Tree	enforce-untagged-route
Description	This command configures the enforcement of BGP routes with no administrative tag policy applied by modifying the next-hop resolution behavior for autobind services.
Options	none – Untagged routes can bind to tagged or untagged LSPs untagged-tunnel – Untagged routes only bind to LSPs without an admin tag
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Resolution method for tunnel selection
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution *keyword*
Tree	resolution
Options	none, filter, any
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter
Tree	resolution-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *boolean*

Synopsis	Use BGP tunneling for next-hop resolution
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter bgp *boolean*
Tree	bgp

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Description	When configured to **true**, BGP searches the BGP LSP for the address of the BGP next hop. When configured to **false**, BGP tunneling is not used and inter-area or inter-as prefixes are not resolved.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ldp *boolean*

Synopsis	Use LDP tunneling for next-hop resolution
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter ldp *boolean*
Tree	ldp
Description	When configured to **true**, BGP searches for an LDP LSP with a FEC prefix corresponding to the address of the BGP next hop. When configured to **false**, LDP tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter rsvp *boolean*
Tree	rsvp
Description	When configured to **true**, BGP searches the best metric RSVP LSP to determine the address of the BGP next hop. This address can correspond to the system interface or to another loopback interface used by the BGP instance on the remote node. The LSP metric is provided by MPLS in the tunnel table. In the case of multiple RSVP LSPs with the same lowest metric, BGP selects the LSP with the lowest tunnel ID. When configured to **false**, the RSVP LSP is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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sr-isis *boolean*

Synopsis Use IS-IS SR tunneling for next-hop resolution

Context **configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-isis *boolean*

Tree sr-isis

Description When configured to **true**, BGP uses an IS-IS tunnel type to resolve the BGP next hop.

When the **sr-isis** command is enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the IS-IS instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, IS-IS tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-ospf *boolean*

Synopsis Use OSPF SR tunneling for next-hop resolution

Context **configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-ospf *boolean*

Tree sr-ospf

Description When configured to **true**, BGP uses an OSPF tunnel type to resolve the BGP next hop.

When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the OSPF instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, OSPF tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

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Platforms SAR Gen 2

sr-ospf3 *boolean*

Synopsis Use OSPFv3 SR tunneling for next-hop resolution

Context **configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-ospf3 *boolean*

Tree sr-ospf3

Description When configured to **true**, BGP uses an OSPF3 tunnel type to resolve the BGP next hop.

When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the OSPFv3 instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, OSPF3 tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-policy *boolean*

Synopsis Use SR policies for next-hop resolution

Context **configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-policy *boolean*

Tree sr-policy

Description When configured to **true**, this command enables the use of SR policies to resolve the next hop of BGP-EVPN service routes.

This command configures BGP to search for an SR policy with:

- a non-null endpoint that matches the next hop of the service route, and
- a color value that matches the highest numbered color for the extended community attached to the service route

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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sr-te *boolean*

Synopsis	Use SR-TE tunneling for next-hop resolution
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-te *boolean*
Tree	sr-te
Description	When configured to **true**, BGP uses an SR-TE tunnel type to resolve the BGP next hop. In the case of multiple SR-TE tunnels with the same lowest metric, BGP selects the tunnel with the lowest tunnel ID. When configured to **false**, SR-TE tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Allow weighted load balancing
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* auto-bind-tunnel weighted-ecmp *boolean*
Tree	weighted-ecmp
Description	When configured to **true**, this router enables weighted ECMP for packets using tunnels that a VPLS or Epipe automatically binds to. Packets are sprayed across LSPs in the ECMP according to the outcome of the hash algorithm and the configured load balancing weight of each LSP. When configured to **false**, this command disables weighted ECMP for next-hop tunnel selection.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable control word support
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* control-word *boolean*

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Tree	control-word
Description	When configured to **true**, the router enables the transmission and reception of the control word for all EVPN-MPLS destinations at the same time.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

default-route-tag *one-byte-value*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Default route tag
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* default-route-tag *one-byte-value*
Tree	default-route-tag
Description	This command configures a route tag that is used when sending a route to the BGP application (for the corresponding service and BGP instance). If the corresponding BGP instance is enabled, the command cannot be changed. When used for BGP EVPN contexts, only one route tag can be passed to BGP for matching on export policies. In case of a conflict with other route tags pushed by EVPN, the default route tag has the least priority.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-egress-label-limit *boolean*

Synopsis	Enables dynamic egress label limit
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* dynamic-egress-label-limit *boolean*
Tree	dynamic-egress-label-limit
Description	When configured to **true**, this command relaxes the egress MPLS label limit check when resolving BGP next hops in the tunnel table. For VPRN services, the OAM label is never computed and, therefore, one more egress label is allowed. For EVPN (Epipe and VPLS) services, the system only computes the control word and ESI label if they are used. For the control word, the system reduces the egress label limit by one label if the control word is configured in the service. When configured, the ESI label is not counted for Epipes or VPLS services without an ES.

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When configured to **false** this command, for EVPN, Epipe, and VPLS services, always accounts for the ESI label and control word.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

entropy-label *boolean*

Synopsis Allow use of entropy labels for spoke SDPs

Context **configure** service vpls *service-name* bgp-evpn mpls *number* entropy-label *boolean*

Tree entropy-label

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

evi-three-byte-auto-rt *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis Auto-derive the BGP EVPN route target

Context **configure** service vpls *service-name* bgp-evpn mpls *number* evi-three-byte-auto-rt *boolean*

Tree evi-three-byte-auto-rt

Description When configured to **true**, the BGP-EVPN instance import and export route target is auto-derived as described in RFC 8365 (Global-Administrator:A/Type/D-ID/Service-ID).

Where:

- Global Administrator – is the configured 2-octet AS number; if the configured ASN exceeds the 2 byte limit, the low order 16-bit value is taken
- A=0 (for auto-derivation)
- Type=4 (EVI-based route-target)
- D-ID= [1..2] – encodes the BGP instance, which allows the auto-derivation of different route-targets in multi-instance services; the value is inherited from the corresponding BGP instance
- Service ID=3-octet EVI

When configured to **false**, route target derivation is not allowed.

Default false

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Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis	Relearn request for a protected MAC is received action
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* fdb protected-src-mac-violation-action *keyword*
Tree	protected-src-mac-violation-action
Options	discard
Introduced	25.3.R2
Platforms	SAR Gen 2

force-vc-forwarding *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	VC forwarding action
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* force-vc-forwarding *keyword*
Tree	force-vc-forwarding
Options	vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced	25.3.R2
Platforms	SAR Gen 2

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mh-mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Multihoming mode
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* mh-mode *keyword*
Tree	mh-mode
Description	This command configures the multihoming mode for BGP-EVPN. Users can configure only one network instance for the service. If a provider tunnel is enabled for the service instance, this command must be configured using the **network** option.
Options	access, network
Default	network
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group ID
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

route-next-hop

Synopsis	Enter the **route-next-hop** context
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* route-next-hop
Tree	route-next-hop
Description	Commands in this context configure the next hop of the EVPN routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IP address of the next-hop for the service EVPN route
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* route-next-hop ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ip-address
Notes	The following elements are part of a choice: **ip-address**, **system-ipv4**, or **system-ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

system-ipv4

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System IPv4 address for service EVPN route next hop
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* route-next-hop system-ipv4
Tree	system-ipv4
Notes	The following elements are part of a choice: **ip-address**, **system-ipv4**, or **system-ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

system-ipv6

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System IPv6 address for service EVPN route next hop
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* route-next-hop system-ipv6
Tree	system-ipv6

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Notes	The following elements are part of a choice: **ip-address**, **system-ipv4**, or **system-ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

send-tunnel-encap

Synopsis	Enter the **send-tunnel-encap** context
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* send-tunnel-encap
Tree	send-tunnel-encap
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable MPLS encapsulation
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* send-tunnel-encap mpls *boolean*
Tree	mpls
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon-group *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Split horizon group
Context	**configure** service vpls *service-name* bgp-evpn mpls *number* split-horizon-group *reference*
Tree	split-horizon-group

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Description	This command configures the value of split-horizon group for all BGP-EVPN segment routing v6 instances.
Reference	**configure** service vpls *service-name* split-horizon-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

per-pe-etree-leaf

Synopsis	Enable the **per-pe-etree-leaf** context
Context	**configure** service vpls *service-name* bgp-evpn per-pe-etree-leaf
Tree	per-pe-etree-leaf
Description	Commands in this context configure the PE as an E-Tree leaf PE for the service. When this command is configured, the PE operates as a leaf PE for the service. As a result, EVPN BUM bindings are not created toward remote PEs that are also configured as E-Tree leaf PEs. In addition, received EVPN MAC/IP Advertisement routes with the leaf flag set are not installed in the service FDB unless they convey an ESI that matches a local ESI on an operationally up SAP, or the **configure service vpls bgp-evpn per-pe-etree-leaf blackhole-non-local-leaf-macs** command is enabled.
Introduced	26.7.R1
Platforms	SAR Gen 2

blackhole-non-local-leaf-macs *boolean*

Synopsis	Blackhole non-local leaf MAC addresses
Context	**configure** service vpls *service-name* bgp-evpn per-pe-etree-leaf blackhole-non-local-leaf-macs *boolean*
Tree	blackhole-non-local-leaf-macs
Description	When configured to **true**, EVPN MAC addresses learned from EVPN MAC and IP advertisement routes marked with the leaf flag and originating from remote PEs are installed in the FDB as blackhole MACs. EVPN MACs learned from non-zero ESI MAC and IP routes that are marked as leaf and associated with a local ES SAP are installed normally. When configured to **false**, the router installs EVPN MACs learned from non-zero ESI MAC and IP routes marked as a leaf and associated with a local ES SAP, while all other leaf-flagged EVPN MACs received from remote PEs are not installed in the FDB.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

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routes

Synopsis	Enter the **routes** context
Context	**configure** service vpls *service-name* bgp-evpn routes
Tree	routes
Introduced	25.3.R2
Platforms	SAR Gen 2

incl-mcast

Synopsis	Enter the **incl-mcast** context
Context	**configure** service vpls *service-name* bgp-evpn routes incl-mcast
Tree	incl-mcast
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-ingress-replication *boolean*

Synopsis	BGP EVPN IMET-IR route advertisement
Context	**configure** service vpls *service-name* bgp-evpn routes incl-mcast advertise-ingress-replication *boolean*
Tree	advertise-ingress-replication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-l2-attributes *boolean*

Synopsis	Advertise Layer 2 attributes
Context	**configure** service vpls *service-name* bgp-evpn routes incl-mcast advertise-l2-attributes *boolean*
Tree	advertise-l2-attributes
Description	When configured to **true**, the router advertises the Layer 2 Attributes Extended Community including: • the service MTU in the Layer 2 MTU field

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- the F bit, which is set to 1 if the **hash-label** command is set to true (in the **configure service vpls bgp-evpn mpls** context); otherwise, the F bit is set to 0
- the C bit, which is set to 1 if the **control-word** command is set to true (in the **configure service vpls bgp-evpn mpls** context); otherwise, the C bit is set to 0

The router compares the received Layer 2 MTU from a peer with the local service MTU. If there is a mismatch, the operation state of the EVPN destination is set to down, except if the **configure service vpls bgp-evpn ignore-mtu-mistmatch** command is set to **true**.

A mismatch between the received C bit and the local **control-word** setting (in the **configure service vpls bgp-evpn mpls** context) results in the operational state of the EVPN destination being set to down.

A mismatch between the received F bit and the local F bit (via the hash label configuration) results in the operational state of the EVPN destination being set to down.

When configured to **false**, the Layer 2 Attributes Extended Community is not advertised with the Inclusive Multicast Ethernet Tag route for the service.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix

Synopsis	Enter the **ip-prefix** context
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix
Tree	ip-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise IP prefixes
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix advertise *boolean*
Tree	advertise
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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domain-id *domain-id*

Synopsis	Domain ID of received BGP route before readvertisement
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix domain-id *domain-id*
Tree	domain-id
Description	This command specifies the domain ID. The domain ID identifies the network from which the BGP route was received before the RTM advertises it to a different neighbor. The domain ID is part of a domain, represented as domain-id:isf_safi_type in the D-PATH attribute, as described in *draft-ietf-bess-evpn-ipvpn-interworking*. Gateway routers modify the D-PATH attribute. A gateway is a PE where a VPRN is instantiated. The VPRN in this case advertises or receives routes from multiple BGP owners (for example, EVPN-IFL and BGP-IPVPN) or multiple instances of the same owner (for example, VPRN with two BGP-IPVPN instances). Gateways use the D-PATH attribute to detect loops (for received routes where the D-PATH contains a local domain ID) and to make BGP best-path selection decisions based on the D-PATH length (shorter D-PATH is preferred). In the following example, suppose a gateway receives prefix P in an EVPN-IFL instance with the following D-PATH from neighbor N: Seg Len=1 / 65000:1:128 If the router imports the route in VPRN-1, BGP-EVPN SRv6 instance with domain 65000:2, it readvertises it to its BGP-IPVPN MPLS instance as follows: Seg Len=2 / 65000:2:70 / 65000:1:128 That is, the gateway prepends the local domain ID and family to the D-PATH before readvertising the route into a different instance.
String format	'domain-id' must be global-field:local-field (uint32:uint16 range)
Introduced	25.3.R2
Platforms	SAR Gen 2

include-direct-interface-host *boolean*

Synopsis	Advertise the interface host address in EVPN
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix include-direct-interface-host *boolean*
Tree	include-direct-interface-host
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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link-bandwidth

Synopsis	Enter the **link-bandwidth** context
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix link-bandwidth
Tree	link-bandwidth
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix link-bandwidth advertise
Tree	advertise
Introduced	25.3.R2
Platforms	SAR Gen 2

max-dynamic-weight *number*

Synopsis	Maximum weight of the advertised evpn-iff route
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix link-bandwidth advertise max-dynamic-weight *number*
Tree	max-dynamic-weight
Range	1 to 128
Default	128
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *(number | keyword)*

Synopsis	Weight of the advertised evpn-iff route
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix link-bandwidth advertise weight *(number | keyword)*
Tree	weight
Range	1 to 128
Options	dynamic

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Default	dynamic
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Enable weighted ECMP
Context	**configure** service vpls *service-name* bgp-evpn routes ip-prefix link-bandwidth weighted-ecmp *boolean*
Tree	weighted-ecmp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-ip

Synopsis	Enter the **mac-ip** context
Context	**configure** service vpls *service-name* bgp-evpn routes mac-ip
Tree	mac-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise BGP-EVPN MAC/IP routes
Context	**configure** service vpls *service-name* bgp-evpn routes mac-ip advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

arp-nd-extended-community *boolean*

Synopsis	Enable ARP/ND extended community
Context	**configure** service vpls *service-name* bgp-evpn routes mac-ip arp-nd-extended-community *boolean*

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Tree	arp-nd-extended-community
Description	When configured to **true**, the system advertises the RFC9047 ARP/ND extended community along with the MAC/IP routes advertised for local static and dynamic proxy ARP or ND entries. The system also processes the ARP/ND extended community and selects the ARP or ND entries based on the immutable flag. When configured to **false**, the system does not advertise the RFC9047 ARP/ND extended community.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

arp-nd-only-with-fdb-advertisement *boolean*

Synopsis	Advertise ARP/ND entries if local MAC is in the FDB
Context	**configure** service vpls *service-name* bgp-evpn routes mac-ip arp-nd-only-with-fdb-advertisement *boolean*
Tree	arp-nd-only-with-fdb-advertisement
Description	When configured to **true**, the router advertises local ARP/ND entries of VPRN interfaces using this VPLS in this BGP-EVPN service when the corresponding local MAC is programmed in the FDB. When configured to **false**, the router does not advertise local ARP/ND entries.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

cfm-mac *boolean*

Synopsis	Enable advertisement and withdrawal of MAC address
Context	**configure** service vpls *service-name* bgp-evpn routes mac-ip cfm-mac *boolean*
Tree	cfm-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-mac *boolean*

Synopsis	Enable advertisement of unknown MAC route in BGP

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Context	**configure** service vpls *service-name* bgp-evpn routes mac-ip unknown-mac *boolean*
Tree	unknown-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sel-mcast

Synopsis	Enter the **sel-mcast** context
Context	**configure** service vpls *service-name* bgp-evpn routes sel-mcast
Tree	sel-mcast
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise Selective Multicast Ethernet Tag routes
Context	**configure** service vpls *service-name* bgp-evpn routes sel-mcast advertise *boolean*
Tree	advertise
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-aware-bundle-eth-tag *number*

Synopsis	Ethernet tag associated with VPLS service
Context	**configure** service vpls *service-name* bgp-evpn routes vlan-aware-bundle-eth-tag *number*
Tree	vlan-aware-bundle-eth-tag
Description	This command configures the Ethernet Tag ID in the EVPN routes for control-plane interoperability mode with VLAN-aware bundle services. The configuration of a non-default value requires the previous configuration of a VLAN-aware bundle name on the service. When set to a non-zero value, the EVPN routes advertised for the VPLS service are advertised with this value into the Ethernet Tag ID field of the routes. On reception of EVPN routes with non-zero Ethernet Tag ID, BGP imports the routes based on the import route target as usual. However, the system checks the received

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Ethernet Tag ID field and only processes those routes whose Ethernet Tag ID matches the local VLAN-aware bundle Ethernet Tag ID.

Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-aware-bundle *named-item*

Synopsis	VLAN aware bundle name
Context	**configure** service vpls *service-name* bgp-evpn vlan-aware-bundle *named-item*
Tree	vlan-aware-bundle
Description	This command configures the name that identifies a group of bundled VPLS services (broadcast domains). This name allows the user to execute **show** commands that are relevant to all the broadcast domains in a VLAN-aware bundle service group.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-mh-site [site-name] *named-item*

Synopsis	Enter the **bgp-mh-site** list instance
Context	**configure** service vpls *service-name* bgp-mh-site *named-item*
Tree	bgp-mh-site
Introduced	25.3.R2
Platforms	SAR Gen 2

[**site-name**] *named-item*

Synopsis	Name for the specific site
Context	**configure** service vpls *service-name* bgp-mh-site *named-item*
Tree	bgp-mh-site
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

activation-timer *number*

Synopsis	Time that the local sites are in standby status, waiting for BGP updates
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* activation-timer *number*
Tree	activation-timer
Range	0 to 100
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the VPLS BGP multi-homing site
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

boot-timer *number*

Synopsis	Wait time after reboot to run the DF election algorithm
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* boot-timer *number*
Tree	boot-timer
Range	0 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

failed-threshold *(number | keyword)*

Synopsis	Threshold for the site to be declared down

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Context	**configure** service vpls *service-name* bgp-mh-site *named-item* failed-threshold *(number | keyword)*
Tree	failed-threshold
Range	1 to 1000
Options	all
Default	all
Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Site ID
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* id *number*
Tree	id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mesh-sdp-binds

Synopsis	Specify if a mesh-sdp-binding is associated with this site
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* mesh-sdp-binds
Tree	mesh-sdp-binds
Notes	The following elements are part of a choice: **mesh-sdp-binds**, **sap**, **shg-name**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

min-down-timer *number*

Synopsis	Minimum downtime for BGP multi-homing site after transition from up to down
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* min-down-timer *number*

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Tree	min-down-timer
Range	0 to 100
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group to monitor
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap *sap*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	SAP to be associated with this site
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* sap *sap*
Tree	sap
String length	1 to 45
Notes	The following elements are part of a choice: **mesh-sdp-binds**, **sap**, **shg-name**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

shg-name *named-item*

WARNING:
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Synopsis	SHG name to be associated with the site
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* shg-name *named-item*
Tree	shg-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **mesh-sdp-binds**, **sap**, **shg-name**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp *sdp-bind-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	SDP associated with the site
Context	**configure** service vpls *service-name* bgp-mh-site *named-item* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	The following elements are part of a choice: **mesh-sdp-binds**, **sap**, **shg-name**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-vpls

Synopsis	Enable the **bgp-vpls** context
Context	**configure** service vpls *service-name* bgp-vpls
Tree	bgp-vpls
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the BGP-VPLS instance
Context	**configure** service vpls *service-name* bgp-vpls admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-ve-id *number*

Synopsis	Maximum vpls-edge id for BGP-VPLS
Context	**configure** service vpls *service-name* bgp-vpls maximum-ve-id *number*
Tree	maximum-ve-id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

ve

Synopsis	Enter the **ve** context
Context	**configure** service vpls *service-name* bgp-vpls ve
Tree	ve
Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

Synopsis	VPLS edge ID
Context	**configure** service vpls *service-name* bgp-vpls ve id *number*
Tree	id
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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name *named-item*

Synopsis	VPLS Edge instance name
Context	**configure** service vpls *service-name* bgp-vpls ve name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

customer *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service customer ID
Context	**configure** service vpls *service-name* customer *reference*
Tree	customer
Reference	**configure** service customer *customer-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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endpoint [name] *named-item*

Synopsis	Enter the **endpoint** list instance
Context	**configure** service vpls *service-name* endpoint *named-item*
Tree	endpoint
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Service endpoint name
Context	**configure** service vpls *service-name* endpoint *named-item*
Tree	endpoint
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

block-on-mesh-failure *boolean*

Synopsis	Enable blocking after the endpoints are in a down state
Context	**configure** service vpls *service-name* endpoint *named-item* block-on-mesh-failure *boolean*
Tree	block-on-mesh-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* endpoint *named-item* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* endpoint *named-item* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Populate automatically MAC protect list with MAC addresses learned on SDP with this endpoint
Context	**configure** service vpls *service-name* endpoint *named-item* fdb auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-pinning *boolean*

Synopsis	Activate MAC address pinning on this endpoint
Context	**configure** service vpls *service-name* endpoint *named-item* fdb mac-pinning *boolean*
Tree	mac-pinning
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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maximum-mac-addresses *number*

Synopsis	Maximum number of MAC address entries in the FDB
Context	**configure** service vpls *service-name* endpoint *named-item* fdb maximum-mac-addresses *number*
Tree	maximum-mac-addresses
Description	This command specifies the maximum number of FDB entries for both learned and static MAC addresses for this endpoint. When the configured limit is reached, no new addresses are learned from the SAP or spoke SDP until at least one FDB entry is aged out or cleared. Packets with unknown source MAC addresses are still forwarded if their destination MAC addresses are known, or flooded if their destination MAC addresses are unknown. However, if the **configure service vpls fdb discard-unknown** command is set to **true**, packets with unknown destination MAC addresses are discarded, even if the limit of FDB entries on the specific VPLS instance is not reached. When unconfigured, the endpoint uses the global MAC learning limitations.
Range	1 to 511999
Introduced	25.3.R2
Platforms	SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis	Action taken after a relearn request for protected MAC
Context	**configure** service vpls *service-name* endpoint *named-item* fdb protected-src-mac-violation-action *keyword*
Tree	protected-src-mac-violation-action
Description	This command configures how the system handles relearn requests for protected MAC addresses.
Options	sdp-bind-oper-down, alarm-only, discard
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-standby-signaling *boolean*

Synopsis	Ignore standby-bit received from TLDP peers when performing internal tasks
Context	**configure** service vpls *service-name* endpoint *named-item* ignore-standby-signaling *boolean*
Tree	ignore-standby-signaling

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-endpoint [mc-ep-id] *number*

Synopsis	Enter the **mc-endpoint** list instance
Context	**configure** service vpls *service-name* endpoint *named-item* mc-endpoint *number*
Tree	mc-endpoint
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mc-ep-id**] *number*

Synopsis	MC-EP ID
Context	**configure** service vpls *service-name* endpoint *named-item* mc-endpoint *number*
Tree	mc-endpoint
Description	This command configures the identifier associated with the MC-EP. The ID must be the same on both MC-EP peers.
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ep-peer

Synopsis	Enter the **mc-ep-peer** context
Context	**configure** service vpls *service-name* endpoint *named-item* mc-endpoint *number* mc-ep-peer
Tree	mc-ep-peer
Introduced	25.3.R2
Platforms	SAR Gen 2

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name *named-item*

Synopsis	Name of the MC-EP peer
Context	**configure** service vpls *service-name* endpoint *named-item* mc-endpoint *number* mc-ep-peer name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **name** or **peer-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-address *reference*

Synopsis	IP address of the MC-EP peer
Context	**configure** service vpls *service-name* endpoint *named-item* mc-endpoint *number* mc-ep-peer peer-address *reference*
Tree	peer-address
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	The following elements are part of a choice: **name** or **peer-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-time *(number | keyword)*

Synopsis	Time to wait before reverting to primary spoke SDP
Context	**configure** service vpls *service-name* endpoint *named-item* revert-time *(number | keyword)*
Tree	revert-time
Range	1 to 600
Units	seconds
Options	never, immediate
Default	immediate
Introduced	25.3.R2

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Platforms	SAR Gen 2

suppress-standby-signaling *boolean*

Synopsis	Do not send pseudowire standby bit to TLDP peer when specified spoke SDP is selected as standby
Context	**configure** service vpls *service-name* endpoint *named-item* suppress-standby-signaling *boolean*
Tree	suppress-standby-signaling
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-unknown *boolean*

Synopsis	Discard packets with unknown destination MAC addresses
Context	**configure** service vpls *service-name* fdb discard-unknown *boolean*
Tree	discard-unknown
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-learning

Synopsis	Enter the **mac-learning** context
Context	**configure** service vpls *service-name* fdb mac-learning
Tree	mac-learning
Introduced	25.3.R2

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Platforms	SAR Gen 2

aging *boolean*

Synopsis	Enable aging of MAC addresses
Context	**configure** service vpls *service-name* fdb mac-learning aging *boolean*
Tree	aging
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

learning *boolean*

Synopsis	Enable learning of new MAC addresses
Context	**configure** service vpls *service-name* fdb mac-learning learning *boolean*
Tree	learning
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

local-age-time *number*

Synopsis	Aging time for locally learned MAC addresses
Context	**configure** service vpls *service-name* fdb mac-learning local-age-time *number*
Tree	local-age-time
Description	This command configures the aging time for locally learned MAC addresses in the forwarding database (FDB) for the Virtual Private LAN Service (VPLS) instance. In a VPLS service, MAC addresses are associated with a Service Access Point (SAP) or a Service Destination Point (SDP). MACs associated with a SAP are classified as local MACs, and MACs associated with an SDP are remote MACs. In each VPLS service instance, there are independent aging timers for locally learned MAC and remotely learned MAC entries in the FDB. As in a Layer 2 switch, learned MACs can be aged out if no packets are sourced from the MAC address for a period of time (the aging time).
Range	60 to 86400
Default	300
Introduced	25.3.R2

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Platforms	SAR Gen 2

remote-age-time *number*

Synopsis	Aging time for remotely learned MAC addresses
Context	**configure** service vpls *service-name* fdb mac-learning remote-age-time *number*
Tree	remote-age-time
Description	This command configures the aging time for remotely learned MAC addresses in the forwarding database (FDB) for the Virtual Private LAN Service (VPLS) instance. In a VPLS service, MAC addresses are associated with a Service Access Point (SAP) or a Service Destination Point (SDP). MACs associated with a SAP are classified as local MACs, and MACs associated with an SDP are remote MACs. In each VPLS service instance, there are independent aging timers for locally learned MAC and remotely learned MAC entries in the FDB. As in a Layer 2 switch, learned MACs can be aged out if no packets are sourced from the MAC address for a period of time (the aging time). To reduce the amount of signaling required between switches, configure this time larger than the **local-age-time** command.
Range	60 to 86400
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-move

Synopsis	Enter the **mac-move** context
Context	**configure** service vpls *service-name* fdb mac-move
Tree	mac-move
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of MAC move
Context	**configure** service vpls *service-name* fdb mac-move admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable

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Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down-time *number*

Synopsis	Wait time before re-enabling disabled SAP
Context	**configure** service vpls *service-name* fdb mac-move hold-down-time *number*
Tree	hold-down-time
Range	0 to 600
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

move-frequency *number*

Synopsis	Maximum rate MACs can be re-learned in the VPLS service
Context	**configure** service vpls *service-name* fdb mac-move move-frequency *number*
Tree	move-frequency
Range	1 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-cumulative-factor *number*

Synopsis	Factor for MAC-relearn periods for MAC-relearn rate
Context	**configure** service vpls *service-name* fdb mac-move primary-cumulative-factor *number*
Tree	primary-cumulative-factor
Range	3 to 10
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

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retry-count *(number | keyword)*

Synopsis	Number of retries for re-enabling the SAP or SDP
Context	**configure** service vpls *service-name* fdb mac-move retry-count *(number | keyword)*
Tree	retry-count
Range	1 to 255
Options	unlimited
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *reference*

Synopsis	Enter the **sap** list instance
Context	**configure** service vpls *service-name* fdb mac-move sap *reference*
Tree	sap
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *reference*

Synopsis	SAP identifier
Context	**configure** service vpls *service-name* fdb mac-move sap *reference*
Tree	sap
Reference	**configure** service vpls *service-name* sap *sap*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

level *keyword*

Synopsis	Primary or secondary port level
Context	**configure** service vpls *service-name* fdb mac-move sap *reference* level *keyword*
Tree	level
Options	primary, secondary

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-cumulative-factor *number*

Synopsis	Number of periods to measure mac-relearn rate
Context	**configure** service vpls *service-name* fdb mac-move secondary-cumulative-factor *number*
Tree	secondary-cumulative-factor
Range	2 to 9
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *reference*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** service vpls *service-name* fdb mac-move spoke-sdp *reference*
Tree	spoke-sdp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *reference*

Synopsis	SDP binding ID
Context	**configure** service vpls *service-name* fdb mac-move spoke-sdp *reference*
Tree	spoke-sdp
Reference	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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level *keyword*

Synopsis	Primary or secondary port level
Context	**configure** service vpls *service-name* fdb mac-move spoke-sdp *reference* level *keyword*
Tree	level
Options	primary, secondary
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-subnet-length *number*

Synopsis	Number of bits performing MAC learning or MAC switching
Context	**configure** service vpls *service-name* fdb mac-subnet-length *number*
Tree	mac-subnet-length
Range	24 to 48
Default	48
Introduced	25.3.R2
Platforms	SAR Gen 2

selective-learning *boolean*

Synopsis	Allocate FDB entries on selectively learned line cards
Context	**configure** service vpls *service-name* fdb selective-learning *boolean*
Tree	selective-learning
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static-mac

Synopsis	Enter the **static-mac** context
Context	**configure** service vpls *service-name* fdb static-mac
Tree	static-mac
Introduced	25.3.R2

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Platforms	SAR Gen 2

mac [mac-address] *mac-unicast-address-no-zero*

Synopsis	Enter the **mac** list instance
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero*
Tree	mac
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-address**] *mac-unicast-address-no-zero*

Synopsis	Static MAC address to SAP/SDP-binding or black-hole
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Create a static FDB entry for the MAC address to black-hole traffic
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero* blackhole
Tree	blackhole
Notes	The following elements are part of a mandatory choice: **blackhole**, **endpoint**, **mesh-sdp**, **sap**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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endpoint *reference*

WARNING:
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Synopsis	Endpoint associated with the MAC
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero* endpoint *reference*
Tree	endpoint
Reference	**configure** service vpls *service-name* endpoint *named-item*
Notes	The following elements are part of a mandatory choice: **blackhole**, **endpoint**, **mesh-sdp**, **sap**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mesh-sdp *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Mesh SDP bind associated with this MAC
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero* mesh-sdp *reference*
Tree	mesh-sdp
Reference	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id*
Notes	The following elements are part of a mandatory choice: **blackhole**, **endpoint**, **mesh-sdp**, **sap**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor *keyword*

WARNING:
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Synopsis	Entity to be monitored to decide whether this entry can be installed in the FDB
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero* monitor *keyword*
Tree	monitor
Options	none, forward-status
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

sap *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	SAP associated with this MAC
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero* sap *reference*
Tree	sap
Reference	**configure** service vpls *service-name* sap *sap*
Notes	The following elements are part of a mandatory choice: **blackhole**, **endpoint**, **mesh-sdp**, **sap**, or **spoke-sdp**.
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Spoke SDP bind associated with this MAC
Context	**configure** service vpls *service-name* fdb static-mac mac *mac-unicast-address-no-zero* spoke-sdp *reference*
Tree	spoke-sdp
Reference	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id*
Notes	The following elements are part of a mandatory choice: **blackhole**, **endpoint**, **mesh-sdp**, **sap**, or **spoke-sdp**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

table

Synopsis	Enter the **table** context
Context	**configure** service vpls *service-name* fdb table
Tree	table
Introduced	25.3.R2
Platforms	SAR Gen 2

high-wmark *number*

Synopsis	High watermark for the FDB table
Context	**configure** service vpls *service-name* fdb table high-wmark *number*
Tree	high-wmark
Range	0 to 100
Default	95
Introduced	25.3.R2
Platforms	SAR Gen 2

low-wmark *number*

Synopsis	Low watermark for the FDB table
Context	**configure** service vpls *service-name* fdb table low-wmark *number*
Tree	low-wmark
Range	0 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

size *number*

Synopsis	Maximum MAC entries in the FDB
Context	**configure** service vpls *service-name* fdb table size *number*

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Tree	size
Range	1 to 511999
Default	250
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp-snooping

Synopsis	Enter the **igmp-snooping** context
Context	**configure** service vpls *service-name* igmp-snooping
Tree	igmp-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of snooping
Context	**configure** service vpls *service-name* igmp-snooping admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* igmp-snooping query-interval *number*
Tree	query-interval
Range	1 to 65535
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-source-address *(keyword | ipv4-address)*

Synopsis	Source address for IGMP queries
Context	**configure** service vpls *service-name* igmp-snooping query-source-address *(keyword | ipv4-address)*
Tree	query-source-address
Options	system
Default	system
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

report-source-address *ipv4-address*

Synopsis	Source IP address used when generating IGMP reports
Context	**configure** service vpls *service-name* igmp-snooping report-source-address *ipv4-address*
Tree	report-source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* igmp-snooping robust-count *number*
Tree	robust-count
Range	1 to 255
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-l2vpn-mtu-mismatch *boolean*

Synopsis	Ignore the L2 VPN MTU mismatch with local service MTU
Context	**configure** service vpls *service-name* ignore-l2vpn-mtu-mismatch *boolean*
Tree	ignore-l2vpn-mtu-mismatch
Description	When configured to **true**, the router ignores the value of the Layer 2 MTU in the Layer 2 Info Extended Community received in a BGP update message or the value of the MTU interface parameter received in an LDP label mapping message against the local service MTU or locally signaled MTU. It may, therefore, bring up the VPLS service regardless of any MTU mismatch. When configured to **false**, an MTU mismatch prevents the system from bringing up a VPLS service.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vpls *service-name* interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** service vpls *service-name* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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admin-state *keyword*

Synopsis	Administrative state of the interface
Context	**configure** service vpls *service-name* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *very-long-description*

Synopsis	Text description
Context	**configure** service vpls *service-name* interface *interface-name* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service vpls *service-name* interface *interface-name* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vpls *service-name* interface *interface-name* hold-time ipv4
Tree	ipv4
Introduced	25.3.R2

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

down

Synopsis	Enter the **down** context
Context	**configure** service vpls *service-name* interface *interface-name* hold-time ipv4 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activating the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** service vpls *service-name* interface *interface-name* hold-time ipv4 down init-only *boolean*
Tree	init-only
Description	This command applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** service vpls *service-name* interface *interface-name* hold-time ipv4 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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up

Synopsis	Enter the **up** context
Context	**configure** service vpls *service-name* interface *interface-name* hold-time ipv4 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** service vpls *service-name* interface *interface-name* hold-time ipv4 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vpls *service-name* interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

static-neighbor [ipv4-address] *ipv4-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ipv4-address**] *ipv4-address*

Synopsis	IPv4 address that corresponds to the physical address
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address* mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

timeout *number*

Synopsis	ARP timeout value to determine how long an ARP entry remains in the ARP cache

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Context	**configure** service vpls *service-name* interface *interface-name* ipv4 neighbor-discovery timeout *number*
Tree	timeout
Range	0 to 65535
Units	seconds
Default	14400
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

primary

Synopsis	Enable the **primary** context
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 primary
Tree	primary
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

address *ipv4-address*

Synopsis	IP address of the interface
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 primary address *ipv4-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service vpls *service-name* interface *interface-name* ipv4 primary prefix-length *number*
Tree	prefix-length
Range	0 to 31

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

mac *mac-unicast-address*

Synopsis	MAC address for the interface
Context	**configure** service vpls *service-name* interface *interface-name* mac *mac-unicast-address*
Tree	mac
Description	This command assigns a specific MAC address to an IP interface.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

isid-policy

Synopsis	Enter the **isid-policy** context
Context	**configure** service vpls *service-name* isid-policy
Tree	isid-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [range-entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** service vpls *service-name* isid-policy entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**range-entry-id**] *number*

Synopsis	ISID policy entry ID
Context	**configure** service vpls *service-name* isid-policy entry *number*
Tree	entry

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Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-local *boolean*

Synopsis	Advertise locally-defined I-VPLS ISIDs or static ISIDs
Context	**configure** service vpls *service-name* isid-policy entry *number* advertise-local *boolean*
Tree	advertise-local
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enter the **range** context
Context	**configure** service vpls *service-name* isid-policy entry *number* range
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the ISID range
Context	**configure** service vpls *service-name* isid-policy entry *number* range end *number*
Tree	end
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the ISID range
Context	**configure** service vpls *service-name* isid-policy entry *number* range start *number*

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Tree	start
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

use-def-mcast *boolean*

Synopsis	Use default multicast tree to propagate ISIS range
Context	**configure** service vpls *service-name* isid-policy entry *number* use-def-mcast *boolean*
Tree	use-def-mcast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

m-vpls *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Specify whether this is a management VPLS
Context	**configure** service vpls *service-name* m-vpls *boolean*
Tree	m-vpls
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-flush

Synopsis	Enter the **mac-flush** context
Context	**configure** service vpls *service-name* mac-flush
Tree	mac-flush
Introduced	25.3.R2
Platforms	SAR Gen 2

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tldp

Synopsis	Enter the **tldp** context
Context	**configure** service vpls *service-name* mac-flush tldp
Tree	tldp
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate *boolean*

Synopsis	Propagate MAC flush messages received from the T-LDP
Context	**configure** service vpls *service-name* mac-flush tldp propagate *boolean*
Tree	propagate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-on-failure *boolean*

Synopsis	Send MAC withdraw message on SAP/Spoke-SDP failure
Context	**configure** service vpls *service-name* mac-flush tldp send-on-failure *boolean*
Tree	send-on-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-protect

Synopsis	Enter the **mac-protect** context
Context	**configure** service vpls *service-name* mac-protect
Tree	mac-protect
Introduced	25.3.R2
Platforms	SAR Gen 2

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mac [mac-address] *mac-address*

Synopsis	Add a list entry for **mac**
Context	**configure** service vpls *service-name* mac-protect mac *mac-address*
Tree	mac
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mac-address**] *mac-address*

Synopsis	Protected MAC address
Context	**configure** service vpls *service-name* mac-protect mac *mac-address*
Tree	mac
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6-snooping-scope *keyword*

Synopsis	IPv6 multicast snooping scope
Context	**configure** service vpls *service-name* mcast-ipv6-snooping-scope *keyword*
Tree	mcast-ipv6-snooping-scope
Options	sg-based, mac-based
Default	mac-based
Introduced	25.3.R2
Platforms	SAR Gen 2

mcr-default-gtw

Synopsis	Enter the **mcr-default-gtw** context
Context	**configure** service vpls *service-name* mcr-default-gtw
Tree	mcr-default-gtw
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip *ipv4-unicast-address*

Synopsis	Multi-chassis ring default gateway IP address
Context	**configure** service vpls *service-name* mcr-default-gtw ip *ipv4-unicast-address*
Tree	ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-address*

Synopsis	Multi-chassis ring default gateway MAC address
Context	**configure** service vpls *service-name* mcr-default-gtw mac *mac-address*
Tree	mac
Default	00:00:00:00:00:00
Introduced	25.3.R2
Platforms	SAR Gen 2

mesh-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **mesh-sdp** list instance
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id*
Tree	mesh-sdp
Description	Commands in this context bind a VPLS service to an existing SDP. Mesh SDPs bound to a service are logically treated like a single bridge "port" for flooded traffic where flooded traffic received on any mesh SDP on the service is replicated to other "ports" (spoke SDPs and SAPs) and not transmitted on any mesh SDPs. **Note**: This command creates a binding between a service and an SDP. The SDP has an operational state that determines the operational state of the SDP within the service. For example, if the SDP is administratively or operationally down, the SDP for the service is down. The SDP must already be defined in the **configure service sdp** context to associate the SDP with an Epipe or VPLS service. SDPs must be explicitly associated and bound to a service. If an SDP is not bound to a service, no far-end router devices can participate in the service.
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id*
Tree	mesh-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Policy to collect accounting statistics
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-service-mtu *number*

Synopsis	Advertise service MTU value

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* adv-service-mtu *number*
Tree	adv-service-mtu
Description	This command configures the MTU value that is signaled in the targeted LDP for the spoke-SDP. The router uses the value for signaling and for validation with the received MTU instead of the service MTU. However, the value does not affect the locally enforced value, which is still based on the service MTU. This command cannot be configured on a spoke-SDP that is bound to an SDP with the **adv-mtu-override** command.
Range	0 to 9782
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Allow agent to collect accounting statistics
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

Synopsis	Use the control word as preferred
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* control-word *boolean*
Tree	control-word
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp
Tree	dhcp
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

snoop *boolean*

Synopsis	Allow DHCP snooping of DHCP messages on the SAP or SDP
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp snoop *boolean*
Tree	snoop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp6

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Tree	dhcp6
Introduced	26.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp6 description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

ldra

Synopsis	Enable the **ldra** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp6 ldra
Tree	ldra
Introduced	26.7.R1
Platforms	SAR Gen 2

interface-type *keyword*

Synopsis	LDRA interface type
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* dhcp6 ldra interface-type *keyword*
Tree	interface-type
Description	This command configures this end point as a client-facing or network-facing interface. Spoke-SDP bindings, mesh-SDP bindings, and BGP EVPN service tunnels must be configured as a network-facing interface.
Options	client-facing – Untrusted client-facing interface network-facing – Network-facing interface
Notes	This element is mandatory.
Introduced	26.7.R1

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Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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mfib-allowed-mda-destinations

Synopsis	Enter the **mfib-allowed-mda-destinations** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress mfib-allowed-mda-destinations
Tree	mfib-allowed-mda-destinations
Introduced	25.3.R2
Platforms	SAR Gen 2

mda [mda-id] *slot-mda*

Synopsis	Add a list entry for **mda**
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress mfib-allowed-mda-destinations mda *slot-mda*
Tree	mda
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mda-id**] *slot-mda*

Synopsis	MFIB allowed MDA destination
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress mfib-allowed-mda-destinations mda *slot-mda*
Tree	mda
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

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network

Synopsis	Enter the **network** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the egress port queue group
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress qos network port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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instance *number*

Synopsis	Queue-group instance ID
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Egress MPLS VC label to send packets to the far end
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enable the use of entropy labels for spoke SDPs
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* entropy-label
Tree	entropy-label
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm

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Tree	eth-cfm
Description	Commands in this context configure the Ethernet CFM command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Description	Commands in this context configure an 802.1ag Maintenance Endpoint (MEP) instance. A MEP created at the VPLS service level, using the **configure service vpls eth-cfm** command, creates a virtual MEP.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ais

Synopsis	Enable the **ais** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais
Tree	ais
Description	Commands in this context enable the reception of AIS messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

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client-meg-level *number*

Synopsis	Client MEG level for AIS message generation
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais client-meg-level *number*
Tree	client-meg-level
Description	This command configures the client Maintenance Entity Group (MEG) level to use for AIS message generation. One restriction is that the client MEG level must be higher than the local MEG level. Only the lowest client MEG level is used for facility MEPs.
Range	1 to 7
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-support *boolean*

Synopsis	Enable generation of AIS PDUs based on endpoint state
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interface-support *boolean*
Tree	interface-support
Description	When configured to **true**, the system enables the generation of AIS PDUs based on the associated endpoint state. AIS on operationally down MEPs triggers and clears based on the operational status of the entity it is configured on. If CCM is configured to **true**, transmission of the AIS PDU is based on either the nonoperational state of the entity or on any CCM defect conditions. AIS generation ceases if both the operational state is up and CCM has no defect conditions. If the MEP is not enabled with CCM, the operational state of the entity is the only consideration, assuming the command is present for the MEP. When configured to **false**, the generation of AIS PDUs is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Transmission interval for AIS messages

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interval *number*
Tree	interval
Range	1 | 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def – Generate AIS frame for any defect in CCM state machine mac-rem-err-xcon – Generate AIS frame for def-mac-status defect or higher
Default	all-def
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the AIS messages generated by the node
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

alarm-notification

Synopsis	Enter the **alarm-notification** context

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm *boolean*

Synopsis	Generate CCM messages

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Direction the MEP faces

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* direction *keyword*
Tree	direction
Description	This command configures the direction in which the MEP faces on the bridge port.
Options	down – Send ETH-CFM messages toward the MAC relay entity up – Send ETH-CFM messages away from the MAC relay entity
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros
Introduced	25.3.R2
Platforms	SAR Gen 2

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fault-propagation *keyword*

Synopsis	Fault propagation for the MEP
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* fault-propagation *keyword*
Tree	fault-propagation
Options	use-if-status-tlv – Use the interface TLV suspend-ccm – Suspend continuity check messages
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

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one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Enable automatic population of the MAC protect list
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* fdb auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect-exclude-list *reference*

Synopsis	Referenced MAC protect exclusion list name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* fdb auto-learn-mac-protect-exclude-list *reference*

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Tree	auto-learn-mac-protect-exclude-list
Description	This command references the name of a MAC protect exclusion list. Dynamically-learned MAC Source Addresses (SA) are protected if they are learned on an object with ALMP configured and no exclusion list is associated with the object, or if the MAC SA does not match any entry in an associated exclusion list. An exclusion list can be used in multiple objects of a service. If a list is empty, ALMP does not exclude any learned MAC SAs from protection on the object.
Reference	**configure** service mac-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-pinning *boolean*

Synopsis	MAC address pinning in active status
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* fdb mac-pinning *boolean*
Tree	mac-pinning
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis	Action taken after a relearn request for protected MAC
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* fdb protected-src-mac-violation-action *keyword*
Tree	protected-src-mac-violation-action
Description	This command configures how the system handles relearn requests for protected MAC addresses.
Options	sdp-bind-oper-down, alarm-only, discard
Introduced	25.3.R2
Platforms	SAR Gen 2

force-vc-forwarding *keyword*

Synopsis	VLAN tag processing action
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* force-vc-forwarding *keyword*

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Tree	force-vc-forwarding
Description	This command configures the VLAN tag processing used on the service. The **vlan** option configures the router to preserve the VLAN ID and 802.1p bits of the service-delimiting qtag in a new tag, which is sent in the customer frame to the EVPN destinations. The **qinq-c-tag-c-tag** option configures the router to pushes two tags with the same value derived from the inner service delimiting tag. At network ingress, two VLAN tags are extracted at most and the C-tag and S-tag p/de bits are propagated to the egress SAPs. The **qinq-s-tag-c-tag** option configures the router to push two tags that are copied from the QinQ service-delimiting VLAN values and may be different. At network ingress, two VLAN tags are extracted at most and the p/de bits are propagated to the egress SAP service-delimiting S-tag and C-tag respectively.
Options	vlan – Push VLAN ID and 802.1p bits of service-delimiting qtag qinq-c-tag-c-tag – Push two tags identical to inner service-delimiting tag qinq-s-tag-c-tag – Push two tags based on QinQ service-delimiting values
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-label

Synopsis	Enable the **hash-label** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* hash-label
Tree	hash-label
Description	Commands in this context configure the use of hash labels for egress datapaths. For information about hash-label handling, see the "Hash label" section of the *7705 SAR Gen 2 MPLS Guide*.
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-capability

Synopsis	Signal hash label capability to the remote PE
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* hash-label signal-capability
Tree	signal-capability
Description	When configured, this command enables the signaling and negotiating of the hash label between the local and remote PE nodes.

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The signaling process outcome determines whether the local PE inserts the hash label on the user packets. This outcome can override the local PE configuration.

Introduced 25.3.R2

Platforms SAR Gen 2

igmp-snooping

Synopsis Enter the **igmp-snooping** context

Context **configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping

Tree igmp-snooping

Introduced 25.3.R2

Platforms SAR Gen 2

fast-leave *boolean*

Synopsis Allow IGMP fast leave processing

Context **configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping fast-leave *boolean*

Tree fast-leave

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

import-policy *reference*

Synopsis Import policy that filters IGMP packets

Context **configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping import-policy *reference*

Tree import-policy

Reference **configure** policy-options policy-statement *named-item-64*

Introduced 25.3.R2

Platforms SAR Gen 2

maximum-number-group-sources *number*

Synopsis Maximum group source combinations

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum groups allowed
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum sources that are allowed per group
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000
Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate port as a multicast router port
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping mrouter-port *boolean*
Tree	mrouter-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable IP router alert check option
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping send-queries *boolean*
Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping static
Tree	static

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Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv4-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-address**] *ipv4-multicast-address*

Synopsis	Group address of static IGMP multicast channel
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address*
Tree	group
Description	This command configures an address that receives data on an interface. The IP address must be unique for each static group.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	IGMP protocol version
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* igmp-snooping version *keyword*
Tree	version
Options	1, 2, 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context

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Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress qos

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Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress qos network fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of FP ingress queue group for the SDP binding
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress qos network fp-redirect-group instance *number*

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Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Ingress MPLS VC label to send packets to the far end
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping

Synopsis	Enter the **mld-snooping** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

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fast-leave *boolean*

Synopsis	Allow IGMP fast leave processing
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping fast-leave *boolean*
Tree	fast-leave
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum groups allowed
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate port as a multicast router port
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping mrouter-port *boolean*
Tree	mrouter-port

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds

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Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable IP router alert check option
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping send-queries *boolean*
Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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static

Synopsis	Enter the **static** context
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv6-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[group-address] *ipv6-multicast-address*

Synopsis	Group address of multicast channel
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address*
Tree	group
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	Version of MLD running on the SAP or SDP
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* mld-snooping version *keyword*
Tree	version
Options	1, 2
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-type *keyword*

WARNING:
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Synopsis	Type of virtual circuit (VC) associated with the SDP binding; VPLS not supported
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* vc-type *keyword*
Tree	vc-type
Options	ether, vlan
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-vc-tag *number*

Synopsis	SDP bind VC tag
Context	**configure** service vpls *service-name* mesh-sdp *sdp-bind-id* vlan-vc-tag *number*
Tree	vlan-vc-tag
Range	0 to 4094
Introduced	25.3.R2
Platforms	SAR Gen 2

mfib

Synopsis	Enter the **mfib** context
Context	**configure** service vpls *service-name* mfib
Tree	mfib
Introduced	25.3.R2
Platforms	SAR Gen 2

table

Synopsis	Enter the **table** context
Context	**configure** service vpls *service-name* mfib table
Tree	table
Introduced	25.3.R2
Platforms	SAR Gen 2

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high-wmark *number*

Synopsis	High watermark for the MFIB table
Context	**configure** service vpls *service-name* mfib table high-wmark *number*
Tree	high-wmark
Range	0 to 100
Default	95
Introduced	25.3.R2
Platforms	SAR Gen 2

low-wmark *number*

Synopsis	Low watermark for the MFIB table
Context	**configure** service vpls *service-name* mfib table low-wmark *number*
Tree	low-wmark
Range	0 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

size *number*

Synopsis	Maximum SG entries in the MFIB
Context	**configure** service vpls *service-name* mfib table size *number*
Tree	size
Range	1 to 40959
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping

Synopsis	Enter the **mld-snooping** context
Context	**configure** service vpls *service-name* mld-snooping
Tree	mld-snooping
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of snooping
Context	**configure** service vpls *service-name* mld-snooping admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* mld-snooping query-interval *number*
Tree	query-interval
Range	1 to 65535
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-source-address *(keyword | ipv6-address)*

Synopsis	Source IP address used in MLD queries
Context	**configure** service vpls *service-name* mld-snooping query-source-address *(keyword | ipv6-address)*
Tree	query-source-address
Options	system
Default	system
Introduced	25.3.R2
Platforms	SAR Gen 2

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report-source-address *ipv6-address*

Synopsis	Source IP address used when generating MLD reports
Context	**configure** service vpls *service-name* mld-snooping report-source-address *ipv6-address*
Tree	report-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* mld-snooping robust-count *number*
Tree	robust-count
Range	1 to 255
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-arp

Synopsis	Enable the **proxy-arp** context
Context	**configure** service vpls *service-name* proxy-arp
Tree	proxy-arp
Description	Commands in this context configure proxy-ARP in a VPLS service.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the proxy
Context	**configure** service vpls *service-name* proxy-arp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

age-time *(number | keyword)*

Synopsis	Aging timer for proxy entries, where entries are flushed upon timer expiry
Context	**configure** service vpls *service-name* proxy-arp age-time *(number | keyword)*
Tree	age-time
Range	60 to 86400
Units	seconds
Options	never
Default	never
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-detect

Synopsis	Enter the **duplicate-detect** context
Context	**configure** service vpls *service-name* proxy-arp duplicate-detect
Tree	duplicate-detect
Introduced	25.3.R2
Platforms	SAR Gen 2

anti-spoof-mac *mac-unicast-address-no-zero*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MAC address to replace the proxy-ARP/ND offending entry's MAC
Context	**configure** service vpls *service-name* proxy-arp duplicate-detect anti-spoof-mac *mac-unicast-address-no-zero*
Tree	anti-spoof-mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

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hold-down-time *(number | keyword)*

Synopsis	Hold down time for a duplicate entry
Context	**configure** service vpls *service-name* proxy-arp duplicate-detect hold-down-time *(number | keyword)*
Tree	hold-down-time
Range	2 to 60
Units	minutes
Options	max
Default	9
Introduced	25.3.R2
Platforms	SAR Gen 2

num-moves *number*

Synopsis	Number of moves required to declare a duplicate entry
Context	**configure** service vpls *service-name* proxy-arp duplicate-detect num-moves *number*
Tree	num-moves
Range	3 to 10
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

static-blackhole *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Consider anti-spoof MAC as black-hole static MAC in FDB
Context	**configure** service vpls *service-name* proxy-arp duplicate-detect static-blackhole *boolean*
Tree	static-blackhole
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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window *number*

Synopsis	Time to monitor the MAC address in the anti-spoofing mechanism
Context	**configure** service vpls *service-name* proxy-arp duplicate-detect window *number*
Tree	window
Range	1 to 15
Units	minutes
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-arp

Synopsis	Enter the **dynamic-arp** context
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp
Tree	dynamic-arp
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address [ipv4-address] *ipv4-unicast-address*

Synopsis	Enter the **ip-address** list instance
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp ip-address *ipv4-unicast-address*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-unicast-address*

Synopsis	Proxy ARP IPv4 address
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-list *reference*

Synopsis	MAC list for the dynamic entry
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp ip-address *ipv4-unicast-address* mac-list *reference*
Tree	mac-list
Reference	**configure** service proxy-arp-nd mac-list list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

resolve-retry-time *number*

Synopsis	Frequency at which the resolve messages are sent
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp ip-address *ipv4-unicast-address* resolve-retry-time *number*
Tree	resolve-retry-time
Range	1 to 60
Units	minutes
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *reference*

Synopsis	Add a list entry for **sap**
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp ip-address *ipv4-unicast-address* sap *reference*
Tree	sap
Description	Commands in this context configure the proxy ARP or ND entry for creation when the ARP or neighbor advertisement (NA) packet for the configured IP address is received on the configured SAP, when configured under the **dynamic-arp ip-address** context. This command can be configured in combination with the **mac-list** for the entry, in which

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case, the MAC of the ARP or NA message and the SAP on which the ARP or NA packet is received are both checked before creating the entry.

Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *reference*

Synopsis	SAP identifier
Context	**configure** service vpls *service-name* proxy-arp dynamic-arp ip-address *ipv4-unicast-address* sap *reference*
Tree	sap
Reference	**configure** service vpls *service-name* sap *sap*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-populate *boolean*

Synopsis	Populate proxy ARP entries from snooped GARP/ARP/ND messages on SAPs/SDP-bindings
Context	**configure** service vpls *service-name* proxy-arp dynamic-populate *boolean*
Tree	dynamic-populate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** service vpls *service-name* proxy-arp evpn
Tree	evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

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flood

Synopsis	Enter the **flood** context
Context	**configure** service vpls *service-name* proxy-arp evpn flood
Tree	flood
Introduced	25.3.R2
Platforms	SAR Gen 2

gratuitous-arp *boolean*

Synopsis	Flood GARP-requests/GARP-replies to the EVPN
Context	**configure** service vpls *service-name* proxy-arp evpn flood gratuitous-arp *boolean*
Tree	gratuitous-arp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-arp-req *boolean*

Synopsis	Flood ARP-requests (with source squelching) if there is no active proxy-ARP entry for requested IP
Context	**configure** service vpls *service-name* proxy-arp evpn flood unknown-arp-req *boolean*
Tree	unknown-arp-req
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Route tag used on export policies to match MAC/IP routes generated by proxy-ARP or proxy-ND module
Context	**configure** service vpls *service-name* proxy-arp evpn route-tag *number*

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Tree	route-tag
Range	0 | 1 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

flood

Synopsis	Enter the **flood** context
Context	**configure** service vpls *service-name* proxy-arp flood
Tree	flood
Introduced	25.3.R2
Platforms	SAR Gen 2

received-gratuitous-arp *boolean*

Synopsis	Allow GARP requests or replies to flood the service
Context	**configure** service vpls *service-name* proxy-arp flood received-gratuitous-arp *boolean*
Tree	received-gratuitous-arp
Description	When configured to **true**, the system floods GARP requests and replies received on a SAP (or SDP-bind) to the service flood-list (which includes EVPN destinations and other SAPs and SDP-binds). The GARPs impacted by this command are identified by the sender IP address being equal to the target IP address and the MAC DA that is broadcast.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

received-unknown-arp-req *boolean*

Synopsis	Allow unknown ARP requests to flood the service
Context	**configure** service vpls *service-name* proxy-arp flood received-unknown-arp-req *boolean*
Tree	received-unknown-arp-req
Description	When configured to **true**, the unknown ARP requests received on a SAP (or SDP-bind) are flooded to the service flood-list (which includes EVPN destinations and other SAPs and SDP-binds).

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By default if there is no active proxy ARP entry for the requested IP address, the system floods ARP requests, including EVPN (with source squelching).

Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

process-arp-probes *boolean*

Synopsis	Enable replies to DAD ARP probes
Context	**configure** service vpls *service-name* proxy-arp process-arp-probes *boolean*
Tree	process-arp-probes
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

restrict-non-configured-ip-address

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **restrict-non-configured-ip-address** context
Context	**configure** service vpls *service-name* proxy-arp restrict-non-configured-ip-address
Tree	restrict-non-configured-ip-address
Description	Commands in this context configure whether all the configured dynamic IP address entries are considered the only authorized entries in the proxy ARP or ND table. ARP or ND packets coming from a unauthorized sender IP are dropped. Therefore, unauthorized IP addresses are not learned in the proxy ARP or ND table, and ARP requests or neighbor solicitations (NS) coming from a unauthorized sender IP are not replied (unless the **sponge-mac** command option is configured).
Introduced	25.3.R2
Platforms	SAR Gen 2

sponge-mac *mac-unicast-address-no-zero*

Synopsis	Sponge MAC used to reply to unauthorized requests
Context	**configure** service vpls *service-name* proxy-arp restrict-non-configured-ip-address sponge-mac *mac-unicast-address-no-zero*

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Tree	sponge-mac
Description	This command configures the system to ignore ARP requests or neighbor solicitations from an unauthorized IP address. These requests are not learned in the proxy ARP or ND table (when the **restrict-non-configured-ip-address** command is configured), and the system replies with the configured sponge MAC address. Any IP address that is not configured as proxy ARP, ND dynamic ARP, or neighbor IP address is considered unauthorized and there is no reply. The configured sponge MAC address is not installed in the FDB or advertised in EVPN. If needed, the sponge MAC address can be configured as a static MAC in the same service in the node or a remote node. This command supersedes the operation of the **restrict-non-configured-ip-address** command for replies to ARP requests or neighbor solicitation: • If only **restrict-non-configured-ip-address** is configured, all ARP or ND packets from unauthorized IPs are dropped. • If **restrict-non-configured-ip-address sponge-mac** is configured, ARP or ND packets from unauthorized IPs are dropped except for ARP requests or neighbor solicitation messages, to which the system replies with the configured sponge MAC address.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

send-refresh *(number | keyword)*

Synopsis	Time at which to send a refresh message
Context	**configure** service vpls *service-name* proxy-arp send-refresh *(number | keyword)*
Tree	send-refresh
Range	120 to 86400
Options	never
Default	never
Introduced	25.3.R2
Platforms	SAR Gen 2

static-arp

Synopsis	Enter the **static-arp** context
Context	**configure** service vpls *service-name* proxy-arp static-arp
Tree	static-arp
Introduced	25.3.R2

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Platforms	SAR Gen 2

ip-address [ipv4-address] *ipv4-unicast-address*

Synopsis	Enter the **ip-address** list instance
Context	**configure** service vpls *service-name* proxy-arp static-arp ip-address *ipv4-unicast-address*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-unicast-address*

Synopsis	Proxy ARP IPv4 address
Context	**configure** service vpls *service-name* proxy-arp static-arp ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address-no-zero*

Synopsis	Proxy ARP MAC address for static entry
Context	**configure** service vpls *service-name* proxy-arp static-arp ip-address *ipv4-unicast-address* mac *mac-unicast-address-no-zero*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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table-size *number*

Synopsis	Maximum number of learned and static entries allowed in the proxy table of this service
Context	**configure** service vpls *service-name* proxy-arp table-size *number*
Tree	table-size
Range	1 to 16383
Default	250
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-nd

Synopsis	Enable the **proxy-nd** context
Context	**configure** service vpls *service-name* proxy-nd
Tree	proxy-nd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the proxy
Context	**configure** service vpls *service-name* proxy-nd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

age-time *(number | keyword)*

Synopsis	Aging timer for proxy entries, where entries are flushed upon timer expiry
Context	**configure** service vpls *service-name* proxy-nd age-time *(number | keyword)*
Tree	age-time
Range	60 to 86400
Units	seconds

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Options	never
Default	never
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-detect

Synopsis	Enter the **duplicate-detect** context
Context	**configure** service vpls *service-name* proxy-nd duplicate-detect
Tree	duplicate-detect
Introduced	25.3.R2
Platforms	SAR Gen 2

anti-spoof-mac *mac-unicast-address-no-zero*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MAC address to replace the proxy-ARP/ND offending entry's MAC
Context	**configure** service vpls *service-name* proxy-nd duplicate-detect anti-spoof-mac *mac-unicast-address-no-zero*
Tree	anti-spoof-mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down-time *(number | keyword)*

Synopsis	Hold down time for a duplicate entry
Context	**configure** service vpls *service-name* proxy-nd duplicate-detect hold-down-time *(number | keyword)*
Tree	hold-down-time
Range	2 to 60
Units	minutes
Options	max

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Default	9
Introduced	25.3.R2
Platforms	SAR Gen 2

num-moves *number*

Synopsis	Number of moves required to declare a duplicate entry
Context	**configure** service vpls *service-name* proxy-nd duplicate-detect num-moves *number*
Tree	num-moves
Range	3 to 10
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

static-blackhole *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Consider anti-spoof MAC as black-hole static MAC in FDB
Context	**configure** service vpls *service-name* proxy-nd duplicate-detect static-blackhole *boolean*
Tree	static-blackhole
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

window *number*

Synopsis	Time to monitor the MAC address in the anti-spoofing mechanism
Context	**configure** service vpls *service-name* proxy-nd duplicate-detect window *number*
Tree	window
Range	1 to 15
Units	minutes
Default	3

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Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-neighbor

Synopsis	Enter the **dynamic-neighbor** context
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor
Tree	dynamic-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address [ipv6-address] *ipv6-address*

Synopsis	Enter the **ip-address** list instance
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor ip-address *ipv6-address*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[ipv6-address] *ipv6-address*

Synopsis	Proxy ND IPv6 address
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor ip-address *ipv6-address*
Tree	ip-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-list *reference*

Synopsis	MAC list for the dynamic entry
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor ip-address *ipv6-address* mac-list *reference*
Tree	mac-list

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Reference	**configure** service proxy-arp-nd mac-list list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

resolve-retry-time *number*

Synopsis	Frequency at which the resolve messages are sent
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor ip-address *ipv6-address* resolve-retry-time *number*
Tree	resolve-retry-time
Range	1 to 60
Units	minutes
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *reference*

Synopsis	Add a list entry for **sap**
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor ip-address *ipv6-address* sap *reference*
Tree	sap
Description	Commands in this context configure the proxy ARP or ND entry for creation when the ARP or neighbor advertisement (NA) packet for the configured IP address is received on the configured SAP, when configured under the **dynamic-arp ip-address** context. This command can be configured in combination with the **mac-list** for the entry, in which case, the MAC of the ARP or NA message and the SAP on which the ARP or NA packet is received are both checked before creating the entry.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *reference*

Synopsis	SAP identifier
Context	**configure** service vpls *service-name* proxy-nd dynamic-neighbor ip-address *ipv6-address* sap *reference*

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Tree	sap
Reference	**configure** service vpls *service-name* sap *sap*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-populate *boolean*

Synopsis	Populate proxy ARP entries from snooped GARP/ARP/ND messages on SAPs/SDP-bindings
Context	**configure** service vpls *service-name* proxy-nd dynamic-populate *boolean*
Tree	dynamic-populate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** service vpls *service-name* proxy-nd evpn
Tree	evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-neighbor-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Advertisement type of static or dynamic entries in EVPN
Context	**configure** service vpls *service-name* proxy-nd evpn advertise-neighbor-type *keyword*
Tree	advertise-neighbor-type
Description	This command enables the advertisement of static or dynamic entries that are learned as host, router, or host and router (only one option is possible in a specified service). It also determines the R flag (host or router) when sending Neighbor Advertisement (NA) messages for existing EVPN entries in the proxy-ND table.

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The **router-host** command option is only possible when the ARP/ND extended community is advertised along with the MAC/IP routes. It determines that both host and router (dynamic and static) entries are advertised in MAC/IP routes, with an indication whether the entry is host or router in the R flag. These EVPN entries are installed as host or router entries depending on the R flag of the route, and NA messages for them are sent with the proper host or router indication.

Options	router, host, router-host
Default	router
Introduced	25.3.R2
Platforms	SAR Gen 2

flood

Synopsis	Enter the **flood** context
Context	**configure** service vpls *service-name* proxy-nd evpn flood
Tree	flood
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-neighbor-advertise-host *boolean*

Synopsis	Flood host unsolicited Neighbor Advertisement (NA) replies to EVPN
Context	**configure** service vpls *service-name* proxy-nd evpn flood unknown-neighbor-advertise-host *boolean*
Tree	unknown-neighbor-advertise-host
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-neighbor-advertise-router *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Flood router unsolicited Neighbor Advertisement (NA) replies to EVPN
Context	**configure** service vpls *service-name* proxy-nd evpn flood unknown-neighbor-advertise-router *boolean*

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Tree	unknown-neighbor-advertise-router
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

unknown-neighbor-solicitation *boolean*

Synopsis	Flood unsolicited Neighbor Solicitation messages (with source squelching) into EVPN network
Context	**configure** service vpls *service-name* proxy-nd evpn flood unknown-neighbor-solicitation *boolean*
Tree	unknown-neighbor-solicitation
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Route tag used on export policies to match MAC/IP routes generated by proxy-ARP or proxy-ND module
Context	**configure** service vpls *service-name* proxy-nd evpn route-tag *number*
Tree	route-tag
Range	0 | 1 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

flood

Synopsis	Enter the **flood** context
Context	**configure** service vpls *service-name* proxy-nd flood
Tree	flood

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Introduced	25.3.R2
Platforms	SAR Gen 2

received-unknown-neighbor-advertise-host *boolean*

Synopsis	Allow unknown NA host messages to flood the service
Context	**configure** service vpls *service-name* proxy-nd flood received-unknown-neighbor-advertise-host *boolean*
Tree	received-unknown-neighbor-advertise-host
Description	When configured to **true**, the system floods received unsolicited NAs into the VPLS service (to EVPN destinations and SAPs or SDP-binds). When configured to **false**, the system does not flood unsolicited NAs regardless of the **configure service vpls proxy-nd evpn flood unknown-neighbor-advertise-host** command configuration. The NA messages impacted by this command are NA messages with the following flags: S=0 and R=0.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

received-unknown-neighbor-advertise-router *boolean*

Synopsis	Allow unknown router NA host messages to flood service
Context	**configure** service vpls *service-name* proxy-nd flood received-unknown-neighbor-advertise-router *boolean*
Tree	received-unknown-neighbor-advertise-router
Description	When configured to **true**, the system floods received unsolicited router NAs into the VPLS service (to EVPN destinations and SAPs or SDP-binds). When configured to **false**, the system does not flood unsolicited router NAs regardless of the **configure service vpls proxy-nd evpn flood unknown-neighbor-advertise-router** command configuration. The NA messages impacted by this command are NA messages with the following flags: S=0 and R=1.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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received-unknown-neighbor-solicitation *boolean*

Synopsis	Allow unknown NS messages to flood the service
Context	**configure** service vpls *service-name* proxy-nd flood received-unknown-neighbor-solicitation *boolean*
Tree	received-unknown-neighbor-solicitation
Description	When configured to **true**, the system floods unknown NS messages into the VPLS service (to EVPN destinations and SAPs or SDP-binds). When configured to **false**, the system does not flood unknown NS messages regardless of the **configure service vpls proxy-nd evpn flood unknown-neighbor-solicitation** command configuration.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

process-dad-neighbor-solicitations *boolean*

Synopsis	Enable replies to DAD neighbor solicitations
Context	**configure** service vpls *service-name* proxy-nd process-dad-neighbor-solicitations *boolean*
Tree	process-dad-neighbor-solicitations
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

restrict-non-configured-ip-address

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **restrict-non-configured-ip-address** context
Context	**configure** service vpls *service-name* proxy-nd restrict-non-configured-ip-address
Tree	restrict-non-configured-ip-address
Description	Commands in this context configure whether all the configured dynamic IP address entries are considered the only authorized entries in the proxy ARP or ND table. ARP or ND packets coming from a unauthorized sender IP are dropped. Therefore, unauthorized IP addresses are not learned in the proxy ARP or ND table, and ARP

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requests or neighbor solicitations (NS) coming from a unauthorized sender IP are not replied (unless the **sponge-mac** command option is configured).

Introduced 25.3.R2

Platforms SAR Gen 2

sponge-mac *mac-unicast-address-no-zero*

Synopsis Sponge MAC used to reply to unauthorized requests

Context **configure** service vpls *service-name* proxy-nd restrict-non-configured-ip-address sponge-mac *mac-unicast-address-no-zero*

Tree sponge-mac

Description This command configures the system to ignore ARP requests or neighbor solicitations from an unauthorized IP address. These requests are not learned in the proxy ARP or ND table (when the **restrict-non-configured-ip-address** command is configured), and the system replies with the configured sponge MAC address. Any IP address that is not configured as proxy ARP, ND dynamic ARP, or neighbor IP address is considered unauthorized and there is no reply.

The configured sponge MAC address is not installed in the FDB or advertised in EVPN. If needed, the sponge MAC address can be configured as a static MAC in the same service in the node or a remote node.

This command supersedes the operation of the **restrict-non-configured-ip-address** command for replies to ARP requests or neighbor solicitation:

- If only **restrict-non-configured-ip-address** is configured, all ARP or ND packets from unauthorized IPs are dropped.
- If **restrict-non-configured-ip-address sponge-mac** is configured, ARP or ND packets from unauthorized IPs are dropped except for ARP requests or neighbor solicitation messages, to which the system replies with the configured sponge MAC address.

String format 'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)

Introduced 25.3.R2

Platforms SAR Gen 2

send-refresh *(number | keyword)*

Synopsis Time at which to send a refresh message

Context **configure** service vpls *service-name* proxy-nd send-refresh *(number | keyword)*

Tree send-refresh

Range 120 to 86400

Options never

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Default	never
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor

Synopsis	Enter the **static-neighbor** context
Context	**configure** service vpls *service-name* proxy-nd static-neighbor
Tree	static-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address [ipv6-address] *ipv6-address*

Synopsis	Enter the **ip-address** list instance
Context	**configure** service vpls *service-name* proxy-nd static-neighbor ip-address *ipv6-address*
Tree	ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	Proxy ND IPv6 address
Context	**configure** service vpls *service-name* proxy-nd static-neighbor ip-address *ipv6-address*
Tree	ip-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address-no-zero*

Synopsis	Proxy ARP MAC address for static entry
Context	**configure** service vpls *service-name* proxy-nd static-neighbor ip-address *ipv6-address* mac *mac-unicast-address-no-zero*
Tree	mac

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String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Entry type
Context	**configure** service vpls *service-name* proxy-nd static-neighbor ip-address *ipv6-address* type *keyword*
Tree	type
Options	host, router
Default	router
Introduced	25.3.R2
Platforms	SAR Gen 2

table-size *number*

Synopsis	Maximum number of learned and static entries allowed in the proxy table of this service
Context	**configure** service vpls *service-name* proxy-nd table-size *number*
Tree	table-size
Range	1 to 16383
Default	250
Introduced	25.3.R2
Platforms	SAR Gen 2

routed-vpls

Synopsis	Enable the **routed-vpls** context
Context	**configure** service vpls *service-name* routed-vpls
Tree	routed-vpls
Introduced	25.3.R2
Platforms	SAR Gen 2

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multicast

Synopsis	Enter the **multicast** context
Context	**configure** service vpls *service-name* routed-vpls multicast
Tree	multicast
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vpls *service-name* routed-vpls multicast ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vpls *service-name* routed-vpls multicast ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping

Synopsis	Enter the **mld-snooping** context
Context	**configure** service vpls *service-name* routed-vpls multicast ipv6 mld-snooping
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate VPLS L3 interface as a multicast router port

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Context	**configure** service vpls *service-name* routed-vpls multicast ipv6 mld-snooping mrouter-port *boolean*
Tree	mrouter-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** service vpls *service-name* sap *sap*
Tree	sap
Description	Commands in this context configure a SAP within a service. A SAP is a combination of port and encapsulation parameters, which identifies the service access point on the interface and within the platform. Each SAP must be unique. All SAPs must be explicitly created within a service or on an IP interface. The SAP is owned by the service in which it was created. A SAP can only be associated with a single service. A SAP can only be defined on a port that has been configured as an access port.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP identifier
Context	**configure** service vpls *service-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** service vpls *service-name* sap *sap* accounting-policy *reference*
Tree	accounting-policy

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Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SAP
Context	**configure** service vpls *service-name* sap *sap* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

arp-reply-agent *keyword*

Synopsis	Enable arp-reply-agent function
Context	**configure** service vpls *service-name* sap *sap* arp-reply-agent *keyword*
Tree	arp-reply-agent
Options	true, with-subscr-ident
Introduced	25.3.R2
Platforms	SAR Gen 2

bandwidth *number*

Synopsis	SAP bandwidth
Context	**configure** service vpls *service-name* sap *sap* bandwidth *number*
Tree	bandwidth
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

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bgp-vpls-mh-veid *number*

Synopsis	BGP-VPLS multi-homing VE-ID
Context	**configure** service vpls *service-name* sap *sap* bgp-vpls-mh-veid *number*
Tree	bgp-vpls-mh-veid
Description	This command specifies a VE ID that is configured on SAPs that are part of an EVPN single-active Ethernet Segment. The configuration of this command allows the advertisement of L2VPN routes that indicate the state of multi-homed SAPs to the remote BGP-VPLS PEs, which can trigger a MAC flush operation on the service to avoid traffic from being blackholed when a failure occurs in the active PE. When unconfigured from the SAP, L2VPN routes are withdrawn, which causes MAC flush processing on the remote BGP-VPLS.
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

bpdu-translation *keyword*

Synopsis	Bpdu translation on this SAP
Context	**configure** service vpls *service-name* sap *sap* bpdu-translation *keyword*
Tree	bpdu-translation
Options	auto, pvst, stp, pvst-rw, auto-rw
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting statistics
Context	**configure** service vpls *service-name* sap *sap* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *long-description*

Synopsis	Text description
Context	**configure** service vpls *service-name* sap *sap* description *long-description*
Tree	description
String length	1 to 160
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** service vpls *service-name* sap *sap* dhcp
Tree	dhcp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DHCP
Context	**configure** service vpls *service-name* sap *sap* dhcp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* sap *sap* dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

lease-populate

Synopsis	Enter the **lease-populate** context
Context	**configure** service vpls *service-name* sap *sap* dhcp lease-populate
Tree	lease-populate
Introduced	25.3.R2
Platforms	SAR Gen 2

max-leases *number*

Synopsis	Maximum number of DHCPv4 leases
Context	**configure** service vpls *service-name* sap *sap* dhcp lease-populate max-leases *number*
Tree	max-leases
Range	0 to 131071
Introduced	25.3.R2
Platforms	SAR Gen 2

option-82

Synopsis	Enter the **option-82** context
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82
Tree	option-82
Description	Commands in this context configure the processing required when the router receives a DHCP request that already has an Option 82 field in the packet.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action to take with received DHCP Option 82
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 action *keyword*
Tree	action
Options	replace, drop, keep

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Default	keep
Introduced	25.3.R2
Platforms	SAR Gen 2

circuit-id

Synopsis	Enter the **circuit-id** context
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 circuit-id
Tree	circuit-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-tuple

Synopsis	Use the ASCII-encoded tuple for the circuit ID
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 circuit-id ascii-tuple
Tree	ascii-tuple
Notes	The following elements are part of a choice: **ascii-tuple**, **hex-string**, **none**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	User-defined hexadeciaml value of the option
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 circuit-id hex-string *hex-string*
Tree	hex-string
String length	1 to 66
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-tuple**, **hex-string**, **none**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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none

Synopsis	Do not include the circuit ID
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 circuit-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-tuple**, **hex-string**, **none**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-ascii-tuple

Synopsis	Include the VLAN ID and dot1p bits in the ASCII tuple
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 circuit-id vlan-ascii-tuple
Tree	vlan-ascii-tuple
Description	When configured, the router includes the VLAN ID and dot1p bits with the ASCII-tuple information. This only occurs on dot1q and QinQ-encapsulated ports. When the Option 82 bits are stripped, dot1p bits are copied to the Ethernet header of the outgoing packet. When unconfigured, the router leaves the circuit ID sub-option of the DHCP packet empty.
Notes	The following elements are part of a choice: **ascii-tuple**, **hex-string**, **none**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-id

Synopsis	Enter the **remote-id** context
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 remote-id
Tree	remote-id
Description	Commands in this context configure the remote IP sub-option of the DHCP packet with the identity of the remote host end (typically the DHCP client).
Introduced	25.3.R2
Platforms	SAR Gen 2

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ascii-string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the remote ID
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 remote-id ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	Option as a hexadecimal string
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 remote-id hex-string *hex-string*
Tree	hex-string
String length	1 to 66
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Use the MAC address for the remote ID
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 remote-id mac
Tree	mac
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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none

Synopsis	Do not include the remote ID
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 remote-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-specific-option

Synopsis	Enter the **vendor-specific-option** context
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 vendor-specific-option
Tree	vendor-specific-option
Description	Commands in this context configure the Nokia Vendor-Specific Option (VSO) of the DHCP packet.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-mac-address *boolean*

Synopsis	Send the MAC address in the VSO
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 vendor-specific-option client-mac-address *boolean*
Tree	client-mac-address
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id *boolean*

Synopsis	Send SAP ID in the sub-option of the DHCP relay packet
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 vendor-specific-option sap-id *boolean*
Tree	sap-id
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *boolean*

Synopsis	Send the service ID in the Vendor Specific Option
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 vendor-specific-option service-id *boolean*
Tree	service-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the VSO
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 vendor-specific-option string *string-not-all-spaces*
Tree	string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id *boolean*

Synopsis	Send the system ID in the VSO
Context	**configure** service vpls *service-name* sap *sap* dhcp option-82 vendor-specific-option system-id *boolean*
Tree	system-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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proxy-server

Synopsis	Enter the **proxy-server** context
Context	**configure** service vpls *service-name* sap *sap* dhcp proxy-server
Tree	proxy-server
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP proxy server
Context	**configure** service vpls *service-name* sap *sap* dhcp proxy-server admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

emulated-server *ipv4-unicast-address*

Synopsis	IP address used as DHCP server address in SAP context
Context	**configure** service vpls *service-name* sap *sap* dhcp proxy-server emulated-server *ipv4-unicast-address*
Tree	emulated-server
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-time

Synopsis	Enter the **lease-time** context
Context	**configure** service vpls *service-name* sap *sap* dhcp proxy-server lease-time
Tree	lease-time
Introduced	25.3.R2

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Platforms	SAR Gen 2

radius-override *boolean*

Synopsis	Use lease time information provided by RADIUS server
Context	**configure** service vpls *service-name* sap *sap* dhcp proxy-server lease-time radius-override *boolean*
Tree	radius-override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	DHCP lease time
Context	**configure** service vpls *service-name* sap *sap* dhcp proxy-server lease-time value *number*
Tree	value
Range	300 to 315446399
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

snoop *boolean*

Synopsis	Enable DHCP snooping on the SAP
Context	**configure** service vpls *service-name* sap *sap* dhcp snoop *boolean*
Tree	snoop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** service vpls *service-name* sap *sap* dhcp6

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Tree	dhcp6
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* sap *sap* dhcp6 description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ldra

Synopsis	Enable the **ldra** context
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra
Tree	ldra
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-type *keyword*

Synopsis	LDRA interface type
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra interface-type *keyword*
Tree	interface-type
Description	This command specifies the LDRA interface type. **client-facing** - configure the SAP as an untrusted client-facing interface. Only DHCPv6 client messages are accepted and encapsulated in a Relay-Forward message. It is mandatory to configure an interface ID for client-facing SAPs. Relay-Forward, Relay-Reply, and DHCPv6 server messages are silently dropped when received on a client-facing SAP. **network-facing** - configure the SAP as a network-facing interface. Only Relay-Reply messages are accepted: the server message is extracted from the Relay-Reply message and forwarded in the VPLS. All other DHCPv6 message types are silently dropped when received on a network-facing SAP.

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Options	client-facing, network-facing
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-id

Synopsis	Enable the **interface-id** context
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options interface-id
Tree	interface-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-tuple

Synopsis	Use an ASCII-encoded concatenated tuple
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options interface-id ascii-tuple
Tree	ascii-tuple
Description	This command specifies the use of the ASCII-encoded concatenated tuple, which consists of the system name, service ID, and SAP ID separated by "|".
Notes	The following elements are part of a mandatory choice: **ascii-tuple** or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-ascii-tuple

Synopsis	Use an enhanced ASCII-encoded concatenated tuple

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Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options interface-id vlan-ascii-tuple
Tree	vlan-ascii-tuple
Description	This command specifies the use of the ASCII-encoded concatenated tuple enhanced with VLAN ID and dot1p bits, consisting of the system name, service ID, SAP ID, dot1p inner VLAN, and inner VLAN ID separated by "|".
Notes	The following elements are part of a mandatory choice: **ascii-tuple** or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-id

Synopsis	Enter the **remote-id** context
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options remote-id
Tree	remote-id
Description	Commands in this context configure the Relay-Agent remote ID contents inserted by the LDRA.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Use the DHCPv6 client source MAC address
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options remote-id mac
Tree	mac
Description	This command sets the enterprise number field of the Relay Agent remote ID to 6527 and configures the DHCPv6 client source MAC address as six hexadecimal numbers.
Notes	The following elements are part of a choice: **mac** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	User-defined ASCII string
Context	**configure** service vpls *service-name* sap *sap* dhcp6 ldra options remote-id string *string*
Tree	string

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Description	This command sets the enterprise number field of the Relay-Agent remote ID to 6527 and configures the ASCII-encoded string.
String length	1 to 32
Notes	The following elements are part of a choice: **mac** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection *reference*

Synopsis	Distributed CPU protection policy for SAP
Context	**configure** service vpls *service-name* sap *sap* dist-cpu-protection *reference*
Tree	dist-cpu-protection
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vpls *service-name* sap *sap* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

agg-rate

Synopsis	Enter the **agg-rate** context
Context	**configure** service vpls *service-name* sap *sap* egress agg-rate
Tree	agg-rate
Notes	The following elements are part of a choice: **agg-rate** or **percent-agg-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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queue-frame-based-accounting *boolean*

Synopsis	Enable frame based accounting on policers and queues
Context	**configure** service vpls *service-name* sap *sap* egress agg-rate queue-frame-based-accounting *boolean*
Tree	queue-frame-based-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rate *number*

Synopsis	Enforced aggregate rate for all queues
Context	**configure** service vpls *service-name* sap *sap* egress agg-rate rate *number*
Tree	rate
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-mac-rewrite *mac-unicast-address-no-zero*

Synopsis	Destination MAC overwrite for unicast
Context	**configure** service vpls *service-name* sap *sap* egress dest-mac-rewrite *mac-unicast-address-no-zero*
Tree	dest-mac-rewrite
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vpls *service-name* sap *sap* egress filter
Tree	filter
Introduced	25.3.R2

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Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vpls *service-name* sap *sap* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vpls *service-name* sap *sap* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vpls *service-name* sap *sap* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

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overrides

Synopsis	Enable the **overrides** context
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

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min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed

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Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service vpls *service-name* sap *sap* egress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-egress

Synopsis	Enter the **sap-egress** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress
Tree	sap-egress
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS

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Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00

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Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Policer unique ID

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Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-egress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

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avg-frame-overhead *decimal-number*

Synopsis	Average packet-to-frame encapsulation overhead
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* avg-frame-overhead *decimal-number*
Tree	avg-frame-overhead
Description	This command configures overrides for the average frame overhead. The overrides supersede the average frame overhead configuration under the queue. For a full description of this command, see the **configure qos network-queue queue avg-frame-overhead** and **configure qos sap-egress queue avg-frame-overhead** contexts.
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

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low

Synopsis	Enter the **low** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context

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Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir

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Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID to associate with SAP for mirrored service
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-name *reference*

Synopsis	Name of the queue group redirect list policy
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of port queue group
Context	**configure** service vpls *service-name* sap *sap* egress qos sap-egress port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name. If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent

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Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate

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Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service vpls *service-name* sap *sap* egress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** service vpls *service-name* sap *sap* eth-cfm
Tree	eth-cfm

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Description	Commands in this context configure ETH-CFM command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Description	Commands in this context configure an 802.1ag Maintenance Endpoint (MEP) instance. A MEP created at the VPLS service level, using the **configure service vpls eth-cfm** command, creates a virtual MEP.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ais

Synopsis	Enable the **ais** context
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais
Tree	ais
Description	Commands in this context enable the reception of AIS messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

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client-meg-level *number*

Synopsis	Client MEG level for AIS message generation
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais client-meg-level *number*
Tree	client-meg-level
Description	This command configures the client Maintenance Entity Group (MEG) level to use for AIS message generation. One restriction is that the client MEG level must be higher than the local MEG level. Only the lowest client MEG level is used for facility MEPs.
Range	1 to 7
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-support *boolean*

Synopsis	Enable generation of AIS PDUs based on endpoint state
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interface-support *boolean*
Tree	interface-support
Description	When configured to **true**, the system enables the generation of AIS PDUs based on the associated endpoint state. AIS on operationally down MEPs triggers and clears based on the operational status of the entity it is configured on. If CCM is configured to **true**, transmission of the AIS PDU is based on either the nonoperational state of the entity or on any CCM defect conditions. AIS generation ceases if both the operational state is up and CCM has no defect conditions. If the MEP is not enabled with CCM, the operational state of the entity is the only consideration, assuming the command is present for the MEP. When configured to **false**, the generation of AIS PDUs is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Transmission interval for AIS messages

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Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interval *number*
Tree	interval
Range	1 | 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def – Generate AIS frame for any defect in CCM state machine mac-rem-err-xcon – Generate AIS frame for def-mac-status defect or higher
Default	all-def
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the AIS messages generated by the node
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

alarm-notification

Synopsis	Enter the **alarm-notification** context

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Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm *boolean*

Synopsis	Generate CCM messages

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Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Direction the MEP faces

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Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* direction *keyword*
Tree	direction
Description	This command configures the direction in which the MEP faces on the bridge port.
Options	down – Send ETH-CFM messages toward the MAC relay entity up – Send ETH-CFM messages away from the MAC relay entity
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros
Introduced	25.3.R2
Platforms	SAR Gen 2

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fault-propagation *keyword*

Synopsis	Fault propagation for the MEP
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* fault-propagation *keyword*
Tree	fault-propagation
Options	use-if-status-tlv – Use the interface TLV suspend-ccm – Suspend continuity check messages
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

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one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** service vpls *service-name* sap *sap* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* sap *sap* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Enable automatic update of MAC protect list
Context	**configure** service vpls *service-name* sap *sap* fdb auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect-exclude-list *reference*

Synopsis	Referenced MAC protect exclusion list
Context	**configure** service vpls *service-name* sap *sap* fdb auto-learn-mac-protect-exclude-list *reference*
Tree	auto-learn-mac-protect-exclude-list

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Description	This command references the name of a MAC protect exclusion list. Dynamically-learned MAC Source Addresses (SA) are protected if they are learned on an object with ALMP configured and no exclusion list is associated with the object, or if the MAC SA does not match any entry in an associated exclusion list. An exclusion list can be used in multiple objects of a service. If a list is empty, ALMP does not exclude any learned MAC SAs from protection on the object.
Reference	**configure** service mac-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-unknown-source *boolean*

Synopsis	Discard packets with unknown destination MAC addresses
Context	**configure** service vpls *service-name* sap *sap* fdb discard-unknown-source *boolean*
Tree	discard-unknown-source
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-unprotected-dest-mac *boolean*

Synopsis	Discard packet with unprotected destination MAC address
Context	**configure** service vpls *service-name* sap *sap* fdb discard-unprotected-dest-mac *boolean*
Tree	discard-unprotected-dest-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

limit-mac-move *keyword*

Synopsis	MAC move
Context	**configure** service vpls *service-name* sap *sap* fdb limit-mac-move *keyword*
Tree	limit-mac-move
Options	blockable, non-blockable
Default	blockable

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Introduced	25.3.R2
Platforms	SAR Gen 2

mac-learning

Synopsis	Enter the **mac-learning** context
Context	**configure** service vpls *service-name* sap *sap* fdb mac-learning
Tree	mac-learning
Introduced	25.3.R2
Platforms	SAR Gen 2

aging *boolean*

Synopsis	Enable aging of MAC addresses
Context	**configure** service vpls *service-name* sap *sap* fdb mac-learning aging *boolean*
Tree	aging
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

learning *boolean*

Synopsis	Enable learning of new MAC addresses
Context	**configure** service vpls *service-name* sap *sap* fdb mac-learning learning *boolean*
Tree	learning
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-pinning *boolean*

Synopsis	Enable MAC address pinning on this SAP
Context	**configure** service vpls *service-name* sap *sap* fdb mac-pinning *boolean*
Tree	mac-pinning
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-mac-addresses *number*

Synopsis	Maximum number of MAC address entries in the FDB
Context	**configure** service vpls *service-name* sap *sap* fdb maximum-mac-addresses *number*
Tree	maximum-mac-addresses
Description	This command specifies the maximum number of FDB entries for both learned and static MAC addresses for this SAP. When the configured limit is reached, no new addresses are learned from the SAP or spoke SDP until at least one FDB entry is aged out or cleared. When the configured limit is reached and the **configure service pw-template fdb discard-unknown-source** command is set to **true** for this SAP, packets with unknown source MAC addresses are discarded. If **discard-unknown-source** is set to **false**, the packets are forwarded if their destination MAC addresses are known, or flooded if their destination MAC addresses are unknown. However, if the **configure service vpls fdb discard-unknown** command is set to **true**, packets with unknown destination MAC addresses are discarded, even if the limit of FDB entries on the specific VPLS instance is not reached. When unconfigured, the SAP uses the global MAC learning limitations.
Range	1 to 511999
Introduced	25.3.R2
Platforms	SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis	Action taken after a relearn request for protected MAC
Context	**configure** service vpls *service-name* sap *sap* fdb protected-src-mac-violation-action *keyword*
Tree	protected-src-mac-violation-action
Description	This command configures how the system handles relearn requests for protected MAC addresses.
Options	sap-oper-down, alarm-only, discard
Introduced	25.3.R2
Platforms	SAR Gen 2

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i-vpls-mac-flush

Synopsis	Enter the **i-vpls-mac-flush** context
Context	**configure** service vpls *service-name* sap *sap* i-vpls-mac-flush
Tree	i-vpls-mac-flush
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-evpn

Synopsis	Enter the **bgp-evpn** context
Context	**configure** service vpls *service-name* sap *sap* i-vpls-mac-flush bgp-evpn
Tree	bgp-evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp-snooping

Synopsis	Enter the **igmp-snooping** context
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping
Tree	igmp-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-leave *boolean*

Synopsis	Allow IGMP fast leave processing
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping fast-leave *boolean*
Tree	fast-leave
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-group-sources *number*

Synopsis	Maximum group source combinations
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum groups allowed
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum sources that are allowed per group
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000

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Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate port as a multicast router port
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping mrouter-port *boolean*
Tree	mrouter-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable IP router alert check option
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping send-queries *boolean*

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Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv4-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping static group *ipv4-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-address**] *ipv4-multicast-address*

Synopsis	Group address of static IGMP multicast channel
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping static group *ipv4-multicast-address*
Tree	group
Description	This command configures an address that receives data on an interface. The IP address must be unique for each static group.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping static group *ipv4-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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version *keyword*

Synopsis	IGMP protocol version
Context	**configure** service vpls *service-name* sap *sap* igmp-snooping version *keyword*
Tree	version
Options	1, 2, 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vpls *service-name* sap *sap* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vpls *service-name* sap *sap* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vpls *service-name* sap *sap* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vpls *service-name* sap *sap* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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root

Synopsis	Enter the **root** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216

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Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2

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Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service vpls *service-name* sap *sap* ingress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-ingress

Synopsis	Enter the **sap-ingress** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress
Tree	sap-ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Queue group template name created on forwarding plane
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance *number*

Synopsis	Queue group instance
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-ingress *qos-policy-name* policer *number*

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Introduced	25.3.R2

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Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context

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Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides policer *reference* stat-mode *keyword*

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Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context

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Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2

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Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate
Tree	percent-rate

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Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID
Context	**configure** service vpls *service-name* sap *sap* ingress qos sap-ingress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-ingress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands.

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If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name.

If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.

String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight

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Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service vpls *service-name* sap *sap* ingress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

qtag-manipulation

Synopsis	Enter the **qtag-manipulation** context
Context	**configure** service vpls *service-name* sap *sap* ingress qtag-manipulation
Tree	qtag-manipulation
Description	Commands in this context configure ingress VLAN translation.
Introduced	25.3.R2
Platforms	SAR Gen 2

c-tag *(number | keyword)*

Synopsis	Inner C-tag value for ingress QinQ VLAN translation
Context	**configure** service vpls *service-name* sap *sap* ingress qtag-manipulation c-tag *(number | keyword)*
Tree	c-tag
Range	0 to 4094
Options	tag-*
Notes	The following elements are part of a choice: **push-dot1q-vlan** or (**c-tag** and **s-tag**).
Introduced	26.3.R1
Platforms	SAR Gen 2

push-dot1q-vlan *(number | keyword)*

Synopsis	VLAN translation information
Context	**configure** service vpls *service-name* sap *sap* ingress qtag-manipulation push-dot1q-vlan *(number | keyword)*

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Tree	push-dot1q-vlan
Description	This command configures the router to overwrite the preserved VLAN ID with the configured value during VLAN translation. Configuring an explicit VLAN ID is supported only on dot1q encapsulated ports, and copying the outer VLAN ID to the inner position is supported only on QinQ encapsulated ports.
Range	0 to 4094
Options	use-sap-svlan – Copy the outer VLAN ID to inner position
Notes	The following elements are part of a choice: **push-dot1q-vlan** or (**c-tag** and **s-tag**).
Introduced	25.3.R2
Platforms	SAR Gen 2

s-tag *number*

Synopsis	Outer S-tag value for ingress QinQ VLAN translation
Context	**configure** service vpls *service-name* sap *sap* ingress qtag-manipulation s-tag *number*
Tree	s-tag
Range	0 to 4094
Notes	The following elements are part of a choice: **push-dot1q-vlan** or (**c-tag** and **s-tag**).
Introduced	26.3.R1
Platforms	SAR Gen 2

l2pt

Synopsis	Enter the **l2pt** context
Context	**configure** service vpls *service-name* sap *sap* l2pt
Tree	l2pt
Introduced	25.3.R2
Platforms	SAR Gen 2

force-boundary

Synopsis	Enable the **force-boundary** context
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary
Tree	force-boundary
Introduced	25.3.R2

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Platforms	SAR Gen 2

protocols

Synopsis	Enter the **protocols** context
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols
Tree	protocols
Introduced	25.3.R2
Platforms	SAR Gen 2

cdp *boolean*

Synopsis	Enable Cisco discovery protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols cdp *boolean*
Tree	cdp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dtp *boolean*

Synopsis	Enable dynamic trunking protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols dtp *boolean*
Tree	dtp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pagp *boolean*

Synopsis	Enable port aggregation protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols pagp *boolean*
Tree	pagp
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

stp *boolean*

Synopsis	Enable all spanning tree protocols
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols stp *boolean*
Tree	stp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

udld *boolean*

Synopsis	Enable unidirectional link detection
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols udld *boolean*
Tree	udld
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vtp *boolean*

Synopsis	Enable virtual trunk protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt force-boundary protocols vtp *boolean*
Tree	vtp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

termination

Synopsis	Enable the **termination** context
Context	**configure** service vpls *service-name* sap *sap* l2pt termination

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Tree	termination
Introduced	25.3.R2
Platforms	SAR Gen 2

protocols

Synopsis	Enter the **protocols** context
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols
Tree	protocols
Introduced	25.3.R2
Platforms	SAR Gen 2

cdp *boolean*

Synopsis	Enable Cisco discovery protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols cdp *boolean*
Tree	cdp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dtp *boolean*

Synopsis	Enable dynamic trunking protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols dtp *boolean*
Tree	dtp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pagp *boolean*

Synopsis	Enable port aggregation protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols pagp *boolean*
Tree	pagp

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

stp *boolean*

Synopsis	Enable all spanning tree protocols
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols stp *boolean*
Tree	stp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

udld *boolean*

Synopsis	Enable unidirectional link detection
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols udld *boolean*
Tree	udld
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vtp *boolean*

Synopsis	Enable virtual trunk protocol
Context	**configure** service vpls *service-name* sap *sap* l2pt termination protocols vtp *boolean*
Tree	vtp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Enter the **lag** context
Context	**configure** service vpls *service-name* sap *sap* lag

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Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

managed-vlan-list

Synopsis	Enter the **managed-vlan-list** context
Context	**configure** service vpls *service-name* sap *sap* managed-vlan-list
Tree	managed-vlan-list
Introduced	25.3.R2
Platforms	SAR Gen 2

range [vlan-range] *string*

Synopsis	Add a list entry for **range**
Context	**configure** service vpls *service-name* sap *sap* managed-vlan-list range *string*
Tree	range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**vlan-range**] *string*

Synopsis	Range of VLANs associated with the M-VPLS SAP
Context	**configure** service vpls *service-name* sap *sap* managed-vlan-list range *string*
Tree	range
String format	'vlan-range' must be Q-tag range, default-sap, or .. range form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ring

Synopsis	Enable the **mc-ring** context
Context	**configure** service vpls *service-name* sap *sap* mc-ring
Tree	mc-ring

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Introduced	25.3.R2
Platforms	SAR Gen 2

ring-node *named-item*

Synopsis	Name for the ring node associated with this SAP
Context	**configure** service vpls *service-name* sap *sap* mc-ring ring-node *named-item*
Tree	ring-node
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping

Synopsis	Enter the **mld-snooping** context
Context	**configure** service vpls *service-name* sap *sap* mld-snooping
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-leave *boolean*

Synopsis	Allow IGMP fast leave processing
Context	**configure** service vpls *service-name* sap *sap* mld-snooping fast-leave *boolean*
Tree	fast-leave
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service vpls *service-name* sap *sap* mld-snooping import-policy *reference*

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Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum groups allowed
Context	**configure** service vpls *service-name* sap *sap* mld-snooping maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate port as a multicast router port
Context	**configure** service vpls *service-name* sap *sap* mld-snooping mrouter-port *boolean*
Tree	mrouter-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* sap *sap* mld-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vpls *service-name* sap *sap* mld-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vpls *service-name* sap *sap* mld-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* sap *sap* mld-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-alert-check *boolean*

Synopsis	Enable IP router alert check option
Context	**configure** service vpls *service-name* sap *sap* mld-snooping router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service vpls *service-name* sap *sap* mld-snooping send-queries *boolean*
Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vpls *service-name* sap *sap* mld-snooping static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv6-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vpls *service-name* sap *sap* mld-snooping static group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**group-address**] *ipv6-multicast-address*

Synopsis	Group address of multicast channel
Context	**configure** service vpls *service-name* sap *sap* mld-snooping static group *ipv6-multicast-address*
Tree	group
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vpls *service-name* sap *sap* mld-snooping static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vpls *service-name* sap *sap* mld-snooping static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vpls *service-name* sap *sap* mld-snooping static group *ipv6-multicast-address* starg
Tree	starg

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Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	Version of MLD running on the SAP or SDP
Context	**configure** service vpls *service-name* sap *sap* mld-snooping version *keyword*
Tree	version
Options	1, 2
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Monitor operational group
Context	**configure** service vpls *service-name* sap *sap* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-service-site *reference*

Synopsis	Multi service site name
Context	**configure** service vpls *service-name* sap *sap* multi-service-site *reference*
Tree	multi-service-site
Reference	**configure** service customer *customer-name* multi-service-site *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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oper-group *reference*

Synopsis	Operational group
Context	**configure** service vpls *service-name* sap *sap* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

process-cpm-traffic-on-sap-down *boolean*

Synopsis	Process CPM traffic on SAP down event
Context	**configure** service vpls *service-name* sap *sap* process-cpm-traffic-on-sap-down *boolean*
Tree	process-cpm-traffic-on-sap-down
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Split horizon group
Context	**configure** service vpls *service-name* sap *sap* split-horizon-group *reference*
Tree	split-horizon-group
Reference	**configure** service vpls *service-name* split-horizon-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

stp

Synopsis	Enter the **stp** context

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Context	**configure** service vpls *service-name* sap *sap* stp
Tree	stp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of STP
Context	**configure** service vpls *service-name* sap *sap* stp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-edge *boolean*

Synopsis	Enable automatic detection of edge port characteristics
Context	**configure** service vpls *service-name* sap *sap* stp auto-edge *boolean*
Tree	auto-edge
Description	When configured to **true**, the router automatically detects the edge port characteristics of the SAP or spoke SDP. The STP concludes there is no bridge behind the spoke SDP, the OPER_EDGE variable is dynamically set to **true**. If a BPDU is received, the OPER_EDGE variable is dynamically set to **false**. When configured to **false**, the router disables automatic detection.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

edge-port *boolean*

Synopsis	Designate SAP or SDP as an edge port
Context	**configure** service vpls *service-name* sap *sap* stp edge-port *boolean*
Tree	edge-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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link-type *keyword*

Synopsis	Configure STP link-type
Context	**configure** service vpls *service-name* sap *sap* stp link-type *keyword*
Tree	link-type
Options	pt-pt, shared
Default	pt-pt
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-instance [mst-inst-number] *number*

Synopsis	Enter the **mst-instance** list instance
Context	**configure** service vpls *service-name* sap *sap* stp mst-instance *number*
Tree	mst-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mst-inst-number**] *number*

Synopsis	Multiple Spanning Tree Instance number
Context	**configure** service vpls *service-name* sap *sap* stp mst-instance *number*
Tree	mst-instance
Range	1 to 4094
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-path-cost *number*

Synopsis	MSTI path cost
Context	**configure** service vpls *service-name* sap *sap* stp mst-instance *number* mst-path-cost *number*
Tree	mst-path-cost
Range	1 to 200000000

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Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-port-priority *number*

Synopsis	MSTI port priority
Context	**configure** service vpls *service-name* sap *sap* stp mst-instance *number* mst-port-priority *number*
Tree	mst-port-priority
Range	0 | 16 | 32 | 48 | 64 | 80 | 96 | 112 | 128 | 144 | 160 | 176 | 192 | 208 | 224 | 240
Default	128
Introduced	25.3.R2
Platforms	SAR Gen 2

path-cost *number*

Synopsis	Configure path-cost
Context	**configure** service vpls *service-name* sap *sap* stp path-cost *number*
Tree	path-cost
Range	1 to 200000000
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

port-num *number*

Synopsis	Configure virtual port number
Context	**configure** service vpls *service-name* sap *sap* stp port-num *number*
Tree	port-num
Range	1 to 2047
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority *number*

Synopsis	Configure STP priority
Context	**configure** service vpls *service-name* sap *sap* stp priority *number*
Tree	priority
Range	0 to 255
Default	128
Introduced	25.3.R2
Platforms	SAR Gen 2

root-guard *boolean*

Synopsis	Enable/disable STP root-guard
Context	**configure** service vpls *service-name* sap *sap* stp root-guard *boolean*
Tree	root-guard
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** service vpls *service-name* service-id *number*
Tree	service-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

service-mtu *number*

Synopsis	MTU size
Context	**configure** service vpls *service-name* service-mtu *number*

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Tree service-mtu

Description This command configures the Maximum Transmission Unit (MTU) value (payload) for the service. The system uses the value to validate the operational state of the SAP and SDP binding within the service. The value overrides the default MTU for the service type.

The service MTU and a SAP's service delineation encapsulation overhead (4 bytes for a dot1q tag) are used to derive the required MTU of the physical port or channel on which the SAP was created. If the required payload is larger than the port or channel MTU, the SAP is placed in an inoperative state. If the required MTU is equal to or less than the port or channel MTU, the SAP transitions to the operative state.

When binding an SDP to a service, the service MTU is compared to the path MTU associated with the SDP. The path MTU can be administratively defined in the context of the SDP. The default or administrative path MTU can be dynamically reduced due to the MTU capabilities discovered by the tunneling mechanism of the SDP or the egress interface MTU capabilities based on the next hop in the tunnel path. If the service MTU is larger than the path MTU, the SDP binding for the service is placed in an inoperative state. If the service MTU is equal to or less than the path MTU, the SDP binding is placed in an operational state.

If a service MTU, port or channel MTU, or path MTU is dynamically or administratively modified, all associated SAP and SDP binding operational states are automatically reevaluated.

Binding operational states are automatically reevaluated.

For I-VPLS and Epipes bound to a B-VPLS, the service MTU must be at least 18 bytes smaller than the B-VPLS service MTU to accommodate the PBB header.

Because this connects a Layer 2 to a Layer 3 service, adjust the service MTU under the Epipe service. The MTU that is advertised from the Epipe side is service MTU minus EtherHeaderSize.

In the **configure service epipe spoke-sdp** context, the **adv-service-mtu** command can be used to override the configured MTU value used in T-LDP signaling to the far-end of an Epipe spoke-sdp. The **adv-service-mtu** command is also used to validate the value signaled by the far-end PE.

Range 1 to 9782

Introduced 25.3.R2

Platforms SAR Gen 2

split-horizon-group [shg-name] *named-item*

Synopsis Enter the **split-horizon-group** list instance

Context **configure** service vpls *service-name* split-horizon-group *named-item*

Tree split-horizon-group

Description Commands in this context configure the split-horizon group options used in the VPLS instance.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**shg-name**] *named-item*

Synopsis	SHG name to which the SDP belongs
Context	**configure** service vpls *service-name* split-horizon-group *named-item*
Tree	split-horizon-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* split-horizon-group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* split-horizon-group *named-item* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

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saps

Synopsis	Enter the **saps** context
Context	**configure** service vpls *service-name* split-horizon-group *named-item* fdb saps
Tree	saps
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Populate automatically MAC protect list with MAC addresses learned on SDP with split horizon group
Context	**configure** service vpls *service-name* split-horizon-group *named-item* fdb saps auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect-exclude-list *reference*

Synopsis	Referenced MAC protect exclusion list name
Context	**configure** service vpls *service-name* split-horizon-group *named-item* fdb saps auto-learn-mac-protect-exclude-list *reference*
Tree	auto-learn-mac-protect-exclude-list
Description	This command references the name of a MAC protect exclusion list. Dynamically-learned MAC Source Addresses (SA) are protected if they are learned on an object with ALMP configured and no exclusion list is associated with the object, or if the MAC SA does not match any entry in an associated exclusion list. An exclusion list can be used in multiple objects of a service. If a list is empty, ALMP does not exclude any learned MAC SAs from protection on the object.
Reference	**configure** service mac-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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discard-unprotected-dest-mac *boolean*

Synopsis	Discard packet with unprotected destination MAC address
Context	**configure** service vpls *service-name* split-horizon-group *named-item* fdb saps discard-unprotected-dest-mac *boolean*
Tree	discard-unprotected-dest-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis	Action taken after a relearn request for protected MAC
Context	**configure** service vpls *service-name* split-horizon-group *named-item* fdb saps protected-src-mac-violation-action *keyword*
Tree	protected-src-mac-violation-action
Description	This command configures how the system handles relearn requests for protected MAC addresses.
Options	sap-oper-down, alarm-only, discard
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Description	Commands in this context bind a service to an existing service destination point (SDP). A spoke SDP is treated like a traditional bridge port where flooded traffic received on the spoke SDP is replicated on all other ports (other spoke and mesh SDPs or SAPs) and not transmitted on the port it was received. The SDP has an operational state which determines the operational state of the SDP within the service. For example, if the SDP is administratively or operationally down, the SDP for the service is down. The SDP must already be defined in the **configure service sdp** context to associate an SDP with a VPLS service. SDPs must be explicitly associated and bound to a service. If an SDP is not bound to a service, no far-end devices can participate in the service

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Policy to collect accounting statistics
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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adv-service-mtu *number*

Synopsis	Advertise service MTU value
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* adv-service-mtu *number*
Tree	adv-service-mtu
Description	This command configures the MTU value that is signaled in the targeted LDP for the spoke-SDP. The router uses the value for signaling and for validation with the received MTU instead of the service MTU. However, the value does not affect the locally enforced value, which is still based on the service MTU. This command cannot be configured on a spoke-SDP that is bound to an SDP with the **adv-mtu-override** command.
Range	0 to 9782
Introduced	25.3.R2
Platforms	SAR Gen 2

block-on-mesh-failure *boolean*

Synopsis	Enable blocking after all SDPs are operationally down
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* block-on-mesh-failure *boolean*
Tree	block-on-mesh-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bpdu-translation *keyword*

Synopsis	BPDU format
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* bpdu-translation *keyword*
Tree	bpdu-translation
Options	auto, pvst, stp, pvst-rw, auto-rw
Introduced	25.3.R2
Platforms	SAR Gen 2

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collect-stats *boolean*

Synopsis	Allow agent to collect accounting statistics
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

control-word *boolean*

Synopsis	Use the control word as preferred
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* control-word *boolean*
Tree	control-word
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp
Tree	dhcp
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

snoop *boolean*

Synopsis	Allow DHCP snooping of DHCP messages on the SAP or SDP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp snoop *boolean*
Tree	snoop
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp6
Tree	dhcp6
Introduced	26.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp6 description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	26.7.R1
Platforms	SAR Gen 2

ldra

Synopsis	Enable the **ldra** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp6 ldra
Tree	ldra
Introduced	26.7.R1
Platforms	SAR Gen 2

interface-type *keyword*

Synopsis	LDRA interface type
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* dhcp6 ldra interface-type *keyword*
Tree	interface-type
Description	This command configures this end point as a client-facing or network-facing interface. Spoke-SDP bindings, mesh-SDP bindings, and BGP EVPN service tunnels must be configured as a network-facing interface.
Options	client-facing – Untrusted client-facing interface network-facing – Network-facing interface
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter

Synopsis	Enter the **filter** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

mfib-allowed-mda-destinations

Synopsis	Enter the **mfib-allowed-mda-destinations** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress mfib-allowed-mda-destinations
Tree	mfib-allowed-mda-destinations
Introduced	25.3.R2
Platforms	SAR Gen 2

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mda [mda-id] *slot-mda*

Synopsis	Add a list entry for **mda**
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress mfib-allowed-mda-destinations mda *slot-mda*
Tree	mda
Introduced	25.3.R2
Platforms	SAR Gen 2

[**mda-id**] *slot-mda*

Synopsis	MFIB allowed MDA destination
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress mfib-allowed-mda-destinations mda *slot-mda*
Tree	mda
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the egress port queue group
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Queue-group instance ID
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535

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Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Egress MPLS VC label to send packets to the far end
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

endpoint

Synopsis	Enter the **endpoint** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* endpoint
Tree	endpoint
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of service endpoint to which SDP bind is attached
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* endpoint name *reference*
Tree	name
Reference	**configure** service vpls *service-name* endpoint *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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precedence *(number | keyword)*

Synopsis	Precedence of this SDP bind when there are multiple SDP binds attached to one service endpoint
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* endpoint precedence *(number | keyword)*
Tree	precedence
Range	1 to 4
Options	primary
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enable the use of entropy labels for spoke SDPs
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* entropy-label
Tree	entropy-label
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm
Tree	eth-cfm
Description	Commands in this context configure the Ethernet CFM command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

Synopsis	Enter the **mep** list instance
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*

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Tree	mep
Description	Commands in this context configure an 802.1ag Maintenance Endpoint (MEP) instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-admin-name *reference*

Synopsis	Maintenance Domain (MD) name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-admin-name *reference*

Synopsis	Maintenance Association (MA) name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Reference	**configure** eth-cfm domain *admin-name* association *admin-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mep-id *number*

Synopsis	Maintenance Endpoint (MEP) ID
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number*
Tree	mep
Range	1 to 8191
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MEP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ais

Synopsis	Enable the **ais** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais
Tree	ais
Description	Commands in this context enable the reception of AIS messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-meg-level *number*

Synopsis	Client MEG level for AIS message generation
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais client-meg-level *number*
Tree	client-meg-level
Description	This command configures the client Maintenance Entity Group (MEG) level to use for AIS message generation. One restriction is that the client MEG level must be higher than the local MEG level. Only the lowest client MEG level is used for facility MEPs.
Range	1 to 7
Max. instances	7
Introduced	25.3.R2

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Platforms	SAR Gen 2

interface-support *boolean*

Synopsis	Enable generation of AIS PDUs based on endpoint state
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interface-support *boolean*
Tree	interface-support
Description	When configured to **true**, the system enables the generation of AIS PDUs based on the associated endpoint state. AIS on operationally down MEPs triggers and clears based on the operational status of the entity it is configured on. If CCM is configured to **true**, transmission of the AIS PDU is based on either the nonoperational state of the entity or on any CCM defect conditions. AIS generation ceases if both the operational state is up and CCM has no defect conditions. If the MEP is not enabled with CCM, the operational state of the entity is the only consideration, assuming the command is present for the MEP. When configured to **false**, the generation of AIS PDUs is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Transmission interval for AIS messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais interval *number*
Tree	interval
Range	1 | 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm

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Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def – Generate AIS frame for any defect in CCM state machine mac-rem-err-xcon – Generate AIS frame for def-mac-status defect or higher
Default	all-def
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Priority of the AIS messages generated by the node
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ais priority *number*
Tree	priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

alarm-notification

Synopsis	Enter the **alarm-notification** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification
Tree	alarm-notification
Description	Commands in this context configure the Fault Notification Generator (FNG) time values to raise an alarm or reset the CCM defect alarm. Use these timers for network management processes. The timers are not tied into delaying the notification to the fault management system on the network element and do not affect fault propagation mechanisms.
Introduced	25.3.R2
Platforms	SAR Gen 2

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fng-alarm-time *number*

Synopsis	Time that must expire before an FNG alarm is raised
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-alarm-time *number*
Tree	fng-alarm-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

fng-reset-time *number*

Synopsis	Time that must expire before an FNG alarm is reset
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* alarm-notification fng-reset-time *number*
Tree	fng-reset-time
Range	250 | 500 | 1000
Units	centiseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm *boolean*

Synopsis	Generate CCM messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm *boolean*
Tree	ccm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ccm-ltm-priority *number*

Synopsis	Priority of CCM and LTM messages transmitted by the MEP

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Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* ccm-ltm-priority *number*
Tree	ccm-ltm-priority
Range	0 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Direction the MEP faces
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* direction *keyword*
Tree	direction
Description	This command configures the direction in which the MEP faces on the bridge port.
Options	down – Send ETH-CFM messages toward the MAC relay entity up – Send ETH-CFM messages away from the MAC relay entity
Default	down
Introduced	25.3.R2
Platforms	SAR Gen 2

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eth-test

Synopsis	Enable the **eth-test** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test
Tree	eth-test
Description	Commands in this context configure information used by the Ethernet Test (ETH-TST) packet. The commands must be configured on both the sender and the receiver nodes. The test packets are used with the **oam eth-cfm eth-test** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

bit-error-threshold *number*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test bit-error-threshold *number*
Tree	bit-error-threshold
Range	0 to 11840
Units	bit errors
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

test-pattern

Synopsis	Enter the **test-pattern** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern
Tree	test-pattern
Description	Commands in this context specify the test pattern for the ETH-TST frames. The pattern does not have to be the same on the sender and the receiver.
Introduced	25.3.R2
Platforms	SAR Gen 2

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crc-tlv *boolean*

Synopsis	Generate a CRC checksum
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern crc-tlv *boolean*
Tree	crc-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pattern *keyword*

Synopsis	Test pattern for Ethernet Test frames
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* eth-test test-pattern pattern *keyword*
Tree	pattern
Description	This command specifies the test pattern of the Ethernet Test (ETH-TST) frames. This does not have to be configured the same on the sender and the receiver.
Options	all-zeros, all-ones
Default	all-zeros
Introduced	25.3.R2
Platforms	SAR Gen 2

fault-propagation *keyword*

Synopsis	Fault propagation for the MEP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* fault-propagation *keyword*
Tree	fault-propagation
Options	use-if-status-tlv – Use the interface TLV suspend-ccm – Suspend continuity check messages
Introduced	25.3.R2
Platforms	SAR Gen 2

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low-priority-defect *keyword*

Synopsis	Lowest priority defect allowed to generate fault alarm
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* low-priority-defect *keyword*
Tree	low-priority-defect
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Default	mac-rem-err-xcon
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-unicast-address-no-zero*

Synopsis	MAC address of the MEP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* mac-address *mac-unicast-address-no-zero*
Tree	mac-address
Description	This command specifies the MAC address of the MEP. When unconfigured, the MAC address of the port (if the MEP is on a SAP) or the MAC address of a bridge (if the MEP is on a spoke) is used.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

one-way-delay-threshold *number*

Synopsis	Threshold time limit for the one-way delay test
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* eth-cfm mep md-admin-name *reference* ma-admin-name *reference* mep-id *number* one-way-delay-threshold *number*
Tree	one-way-delay-threshold
Range	0 to 600
Units	seconds
Default	3
Introduced	25.3.R2

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Platforms	SAR Gen 2

fdb

Synopsis	Enter the **fdb** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb
Tree	fdb
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect *boolean*

Synopsis	Populate automatically MAC protect list with source MAC addresses learned on SDP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb auto-learn-mac-protect *boolean*
Tree	auto-learn-mac-protect
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-learn-mac-protect-exclude-list *reference*

Synopsis	Referenced MAC protect exclusion list name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb auto-learn-mac-protect-exclude-list *reference*
Tree	auto-learn-mac-protect-exclude-list
Description	This command references the name of a MAC protect exclusion list. Dynamically-learned MAC Source Addresses (SA) are protected if they are learned on an object with ALMP configured and no exclusion list is associated with the object, or if the MAC SA does not match any entry in an associated exclusion list. An exclusion list can be used in multiple objects of a service. If a list is empty, ALMP does not exclude any learned MAC SAs from protection on the object.
Reference	**configure** service mac-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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discard-unknown-source *boolean*

Synopsis	Discard packets with unknown destination MAC addresses
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb discard-unknown-source *boolean*
Tree	discard-unknown-source
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

limit-mac-move *keyword*

Synopsis	MAC move
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb limit-mac-move *keyword*
Tree	limit-mac-move
Options	blockable, non-blockable
Default	blockable
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-learning

Synopsis	Enter the **mac-learning** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb mac-learning
Tree	mac-learning
Introduced	25.3.R2
Platforms	SAR Gen 2

aging *boolean*

Synopsis	Enable aging of MAC addresses
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb mac-learning aging *boolean*
Tree	aging
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

learning *boolean*

Synopsis	Enable learning of new MAC addresses
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb mac-learning learning *boolean*
Tree	learning
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-pinning *boolean*

Synopsis	MAC address pinning in active status
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb mac-pinning *boolean*
Tree	mac-pinning
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-mac-addresses *number*

Synopsis	Maximum number of MAC address entries in the FDB
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb maximum-mac-addresses *number*
Tree	maximum-mac-addresses
Description	This command specifies the maximum number of FDB entries for both learned and static MAC addresses for this spoke SDP. When the configured limit is reached, no new addresses are learned from the SAP or spoke SDP until at least one FDB entry is aged out or cleared. When the configured limit is reached and the **configure service spoke-sdp fdb discard-unknown-source** command is set to **true** for this spoke SDP, packets with unknown source MAC addresses are discarded. If **discard-unknown-source** is set to **false**, the packets are forwarded if their destination MAC addresses are known, or flooded if their destination MAC addresses are unknown.

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However, if the **configure service vpls fdb discard-unknown** command is set to **true**, packets with unknown destination MAC addresses are discarded, even if the limit of FDB entries on the specific VPLS instance is not reached.

When unconfigured, the spoke SDP uses the global MAC learning limitations.

Range 1 to 511999

Introduced 25.3.R2

Platforms SAR Gen 2

protected-src-mac-violation-action *keyword*

Synopsis Action taken after a relearn request for protected MAC

Context **configure** service vpls *service-name* spoke-sdp *sdp-bind-id* fdb protected-src-mac-violation-action *keyword*

Tree protected-src-mac-violation-action

Description This command configures how the system handles relearn requests for protected MAC addresses.

Options sdp-bind-oper-down, alarm-only, discard

Introduced 25.3.R2

Platforms SAR Gen 2

force-vc-forwarding *keyword*

Synopsis VLAN tag processing action

Context **configure** service vpls *service-name* spoke-sdp *sdp-bind-id* force-vc-forwarding *keyword*

Tree force-vc-forwarding

Description This command configures the VLAN tag processing used on the service.

The **vlan** option configures the router to preserve the VLAN ID and 802.1p bits of the service-delimiting qtag in a new tag, which is sent in the customer frame to the EVPN destinations.

The **qinq-c-tag-c-tag** option configures the router to pushes two tags with the same value derived from the inner service delimiting tag. At network ingress, two VLAN tags are extracted at most and the C-tag and S-tag p/de bits are propagated to the egress SAPs.

The **qinq-s-tag-c-tag** option configures the router to push two tags that are copied from the QinQ service-delimiting VLAN values and may be different. At network ingress, two VLAN tags are extracted at most and the p/de bits are propagated to the egress SAP service-delimiting S-tag and C-tag respectively.

Options vlan – Push VLAN ID and 802.1p bits of service-delimiting qtag
qinq-c-tag-c-tag – Push two tags identical to inner service-delimiting tag

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qinq-s-tag-c-tag – Push two tags based on QinQ service-delimiting values

Introduced 25.3.R2

Platforms SAR Gen 2

hash-label

Synopsis Enable the **hash-label** context

Context **configure** service vpls *service-name* spoke-sdp *sdp-bind-id* hash-label

Tree hash-label

Description Commands in this context configure the use of hash labels for egress datapaths.

For information about hash-label handling, see the "Hash label" section of the *7705 SAR Gen 2 MPLS Guide*.

Notes The following elements are part of a choice: **entropy-label** or **hash-label**.

Introduced 25.3.R2

Platforms SAR Gen 2

signal-capability

Synopsis Signal hash label capability to the remote PE

Context **configure** service vpls *service-name* spoke-sdp *sdp-bind-id* hash-label signal-capability

Tree signal-capability

Description When configured, this command enables the signaling and negotiating of the hash label between the local and remote PE nodes.

The signaling process outcome determines whether the local PE inserts the hash label on the user packets. This outcome can override the local PE configuration.

Introduced 25.3.R2

Platforms SAR Gen 2

igmp-snooping

Synopsis Enter the **igmp-snooping** context

Context **configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping

Tree igmp-snooping

Introduced 25.3.R2

Platforms SAR Gen 2

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fast-leave *boolean*

Synopsis	Allow IGMP fast leave processing
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping fast-leave *boolean*
Tree	fast-leave
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-group-sources *number*

Synopsis	Maximum group source combinations
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Range	1 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum groups allowed
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping maximum-number-groups *number*
Tree	maximum-number-groups

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Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum sources that are allowed per group
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000
Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate port as a multicast router port
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping mrouter-port *boolean*
Tree	mrouter-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-alert-check *boolean*

Synopsis	Enable IP router alert check option
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping send-queries *boolean*
Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv4-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**group-address**] *ipv4-multicast-address*

Synopsis	Group address of static IGMP multicast channel
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address*
Tree	group
Description	This command configures an address that receives data on an interface. The IP address must be unique for each static group.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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starg

Synopsis	any source address (*,G)
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping static group *ipv4-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	IGMP protocol version
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* igmp-snooping version *keyword*
Tree	version
Options	1, 2, 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-standby-signaling *boolean*

Synopsis	Ignore standby-bit received from TLDP peers when performing internal tasks
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ignore-standby-signaling *boolean*
Tree	ignore-standby-signaling
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress
Tree	ingress

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Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress qos
Tree	qos
Introduced	25.3.R2

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Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of FP ingress queue group for the SDP binding
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535

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Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Ingress MPLS VC label to send packets to the far end
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

l2pt

Synopsis	Enter the **l2pt** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt
Tree	l2pt
Introduced	25.3.R2
Platforms	SAR Gen 2

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termination

Synopsis	Enable the **termination** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination
Tree	termination
Introduced	25.3.R2
Platforms	SAR Gen 2

protocols

Synopsis	Enter the **protocols** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols
Tree	protocols
Introduced	25.3.R2
Platforms	SAR Gen 2

cdp *boolean*

Synopsis	Enable Cisco discovery protocol
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols cdp *boolean*
Tree	cdp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

dtp *boolean*

Synopsis	Enable dynamic trunking protocol
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols dtp *boolean*
Tree	dtp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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pagp *boolean*

Synopsis	Enable port aggregation protocol
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols pagp *boolean*
Tree	pagp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

stp *boolean*

Synopsis	Enable all spanning tree protocols
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols stp *boolean*
Tree	stp
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

udld *boolean*

Synopsis	Enable unidirectional link detection
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols udld *boolean*
Tree	udld
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vtp *boolean*

Synopsis	Enable virtual trunk protocol
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* l2pt termination protocols vtp *boolean*
Tree	vtp

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mld-snooping

Synopsis	Enter the **mld-snooping** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping
Tree	mld-snooping
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-leave *boolean*

Synopsis	Allow IGMP fast leave processing
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping fast-leave *boolean*
Tree	fast-leave
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum groups allowed

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Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

mrouter-port *boolean*

Synopsis	Operate port as a multicast router port
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping mrouter-port *boolean*
Tree	mrouter-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 50

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Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping robust-count *number*
Tree	robust-count
Range	2 to 7
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable IP router alert check option
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping router-alert-check *boolean*
Tree	router-alert-check
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

send-queries *boolean*

Synopsis	Generate IGMP general queries
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping send-queries *boolean*
Tree	send-queries
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv6-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-address**] *ipv6-multicast-address*

Synopsis	Group address of multicast channel
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address*
Tree	group

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping static group *ipv6-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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version *keyword*

Synopsis	Version of MLD running on the SAP or SDP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* mld-snooping version *keyword*
Tree	version
Options	1, 2
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group that affects state of the SDP bind
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group identifier
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* oper-group *reference*
Tree	oper-group
Reference	**configure** service oper-group *named-item*
Notes	The following elements are part of a choice: **monitor-oper-group** or **oper-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pw-status

Synopsis	Enter the **pw-status** context

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Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* pw-status
Tree	pw-status
Introduced	25.3.R2
Platforms	SAR Gen 2

signaling *boolean*

Synopsis	Enable the use of pseudowire status signaling
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* pw-status signaling *boolean*
Tree	signaling
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Name of the split horizon group where the spoke SDP bind belongs to
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* split-horizon-group *reference*
Tree	split-horizon-group
Reference	**configure** service vpls *service-name* split-horizon-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

stp

Synopsis	Enter the **stp** context
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp
Tree	stp
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of STP
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-edge *boolean*

Synopsis	Enable automatic detection of edge port characteristics
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp auto-edge *boolean*
Tree	auto-edge
Description	When configured to **true**, the router automatically detects the edge port characteristics of the SAP or spoke SDP. The STP concludes there is no bridge behind the spoke SDP, the OPER_EDGE variable is dynamically set to **true**. If a BPDU is received, the OPER_EDGE variable is dynamically set to **false**. When configured to **false**, the router disables automatic detection.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

edge-port *boolean*

Synopsis	Designate SAP or SDP as an edge port
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp edge-port *boolean*
Tree	edge-port
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

link-type *keyword*

Synopsis	Configure STP link-type
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp link-type *keyword*

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Tree	link-type
Options	pt-pt, shared
Default	pt-pt
Introduced	25.3.R2
Platforms	SAR Gen 2

path-cost *number*

Synopsis	Configure path-cost
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp path-cost *number*
Tree	path-cost
Range	1 to 200000000
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

port-num *number*

Synopsis	Virtual port number
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp port-num *number*
Tree	port-num
Range	1 to 2047
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Configure STP priority
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp priority *number*
Tree	priority
Range	0 to 255
Default	128
Introduced	25.3.R2
Platforms	SAR Gen 2

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root-guard *boolean*

Synopsis	Enable/disable STP root-guard
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* stp root-guard *boolean*
Tree	root-guard
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Type of virtual circuit (VC) associated with the SDP binding; VPLS not supported
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* vc-type *keyword*
Tree	vc-type
Options	ether, vlan
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-vc-tag *number*

Synopsis	SDP bind VC tag
Context	**configure** service vpls *service-name* spoke-sdp *sdp-bind-id* vlan-vc-tag *number*
Tree	vlan-vc-tag
Range	0 to 4094
Introduced	25.3.R2
Platforms	SAR Gen 2

stp

Synopsis	Enter the **stp** context
Context	**configure** service vpls *service-name* stp

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Tree	stp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of STP
Context	**configure** service vpls *service-name* stp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

forward-delay *number*

Synopsis	Configure forward-delay
Context	**configure** service vpls *service-name* stp forward-delay *number*
Tree	forward-delay
Range	4 to 30
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-time *number*

Synopsis	Configure hello-time
Context	**configure** service vpls *service-name* stp hello-time *number*
Tree	hello-time
Range	1 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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hold-count *number*

Synopsis	Configure BPDU transmit hold count
Context	**configure** service vpls *service-name* stp hold-count *number*
Tree	hold-count
Range	1 to 20
Default	6
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-age *number*

Synopsis	Configure maximum STP information age
Context	**configure** service vpls *service-name* stp maximum-age *number*
Tree	maximum-age
Range	6 to 40
Default	20
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Configure protocol version
Context	**configure** service vpls *service-name* stp mode *keyword*
Tree	mode
Options	rstp, comp-dot1w, dot1w, mstp, pmstp
Default	rstp
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-instance [mst-inst-number] *number*

Synopsis	Enter the **mst-instance** list instance
Context	**configure** service vpls *service-name* stp mst-instance *number*
Tree	mst-instance

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**mst-inst-number**] *number*

Synopsis	Multiple Spanning Tree Instance number
Context	**configure** service vpls *service-name* stp mst-instance *number*
Tree	mst-instance
Range	1 to 4094
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-priority *number*

Synopsis	Priority of multiple spanning tree instance
Context	**configure** service vpls *service-name* stp mst-instance *number* mst-priority *number*
Tree	mst-priority
Range	0 | 4096 | 8192 | 12288 | 16384 | 20480 | 24576 | 28672 | 32768 | 36864 | 40960 | 45056 | 49152 | 53248 | 57344 | 61440
Default	32768
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-range [range] *string*

Synopsis	Add a list entry for **vlan-range**
Context	**configure** service vpls *service-name* stp mst-instance *number* vlan-range *string*
Tree	vlan-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**range**] *string*

Synopsis	Range of VLANs associated with the M-VPLS SAP

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Context	**configure** service vpls *service-name* stp mst-instance *number* vlan-range *string*
Tree	vlan-range
String format	'range' must be Q-tag or low..high VLAN range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-maximum-hops *number*

Synopsis	Maximum number of hops in an MSTP region
Context	**configure** service vpls *service-name* stp mst-maximum-hops *number*
Tree	mst-maximum-hops
Range	1 to 40
Default	20
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-name *named-item*

Synopsis	MST region name
Context	**configure** service vpls *service-name* stp mst-name *named-item*
Tree	mst-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mst-revision *number*

Synopsis	MST configuration revision
Context	**configure** service vpls *service-name* stp mst-revision *number*
Tree	mst-revision
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority *number*

Synopsis	STP bridge priority
Context	**configure** service vpls *service-name* stp priority *number*
Tree	priority
Range	0 to 65535
Default	32768
Introduced	25.3.R2
Platforms	SAR Gen 2

temp-flooding *number*

Synopsis	Temporary flooding
Context	**configure** service vpls *service-name* temp-flooding *number*
Tree	temp-flooding
Range	3 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-elmi *boolean*

Synopsis	Allow E-LMI tunneling
Context	**configure** service vpls *service-name* tunnel-elmi *boolean*
Tree	tunnel-elmi
Description	When configured to **true**, the router allows E-LMI packets in a VPLS service to be tunneled. The following must also be the case for this command to function: • the **configure port ethernet elmi mode uni-n** command is not configured • the E-LMI packets map to that VPLS service When configured to **false**, tunneling of the E-LMI packets for a VPLS service is disabled.
Default	false
Introduced	25.10.R2
Platforms	SAR Gen 2

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vpn-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VPN identifier for the service
Context	**configure** service vpls *service-name* vpn-id *number*
Tree	vpn-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

vprn [service-name] *service-name*

Synopsis	Enter the **vprn** list instance
Context	**configure** service vprn *service-name*
Tree	vprn
Description	Commands in this context create or edit a VPRN service instance.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**service-name**] *service-name*

Synopsis	Administrative service name
Context	**configure** service vprn *service-name*
Tree	vprn
Description	This command creates or edits a service instance. When a service is created, the **customer** keyword and *customer-id* must be specified and associates the service with a customer. The *customer-id* must already exist having been created using the customer command in the service context. When a service is created with a customer association, it is not possible to edit the customer association. The service must be deleted and re-created with a new customer association. When a service is created, the use of the **customer***customer-id* is optional to navigate into the service configuration context. If attempting to edit a service with the incorrect *customer-id* results in an error. This command specifies the unique service identification number identifying the service in the service domain. This ID must be unique to this service and may not be used for

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	any other service of any type. The service ID must be the same number used for every platform on which this service is defined.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

aaa

Synopsis	Enter the **aaa** context
Context	**configure** service vprn *service-name* aaa
Tree	aaa
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-servers

Synopsis	Enter the **remote-servers** context
Context	**configure** service vprn *service-name* aaa remote-servers
Tree	remote-servers
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enable the **radius** context
Context	**configure** service vprn *service-name* aaa remote-servers radius
Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

access-algorithm *keyword*

Synopsis	Algorithm used to access the set of RADIUS servers

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Context	**configure** service vprn *service-name* aaa remote-servers radius access-algorithm *keyword*
Tree	access-algorithm
Options	direct, round-robin
Default	direct
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting *boolean*

Synopsis	Enable RADIUS command accounting
Context	**configure** service vprn *service-name* aaa remote-servers radius accounting *boolean*
Tree	accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-port *number*

Synopsis	Port number on RADIUS server for accounting requests
Context	**configure** service vprn *service-name* aaa remote-servers radius accounting-port *number*
Tree	accounting-port
Range	1 to 65535
Default	1813
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the authentication server
Context	**configure** service vprn *service-name* aaa remote-servers radius admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

authorization *boolean*

Synopsis	Enable RADIUS authorization
Context	**configure** service vprn *service-name* aaa remote-servers radius authorization *boolean*
Tree	authorization
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interactive-authentication *boolean*

Synopsis	Enable RADIUS interactive authentication
Context	**configure** service vprn *service-name* aaa remote-servers radius interactive-authentication *boolean*
Tree	interactive-authentication
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	UDP port number on which to contact RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius port *number*
Tree	port
Range	1 to 65535
Default	1812
Introduced	25.3.R2
Platforms	SAR Gen 2

server [index] *number*

Synopsis	Enter the **server** list instance

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Context	**configure** service vprn *service-name* aaa remote-servers radius server *number*
Tree	server
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	RADIUS server ID
Context	**configure** service vprn *service-name* aaa remote-servers radius server *number*
Tree	server
Range	1 to 5
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticator *keyword*

Synopsis	Authenticator hash algorithm for the RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius server *number* authenticator *keyword*
Tree	authenticator
Description	This command specifies the hash algorithm used to authenticate RADIUS Access-Request, Access-Accept, Access-Reject, Access-Challenge, Accounting-Request, and Accounting-Response packets.

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Options	md5, sm3
Default	md5
Introduced	25.3.R2
Platforms	SAR Gen 2

secret *encrypted-leaf*

Synopsis	Secret key to access the RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius server *number* secret *encrypted-leaf*
Tree	secret
Description	This command specifies the secret key to access the RADIUS server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-client-profile *reference*

Synopsis	TLS client profile for the RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius server *number* tls-client-profile *reference*
Tree	tls-client-profile
Description	This command specifies the TLS client profile used to encrypt RADIUS communication. When configured, RADIUS messages are sent using TLS.
Reference	**configure** system security tls client-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

server-retry *number*

Synopsis	Number of attempts to retry contacting RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius server-retry *number*
Tree	server-retry

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Range	1 to 10
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

server-timeout *number*

Synopsis	Time to wait for a response from the RADIUS server
Context	**configure** service vprn *service-name* aaa remote-servers radius server-timeout *number*
Tree	server-timeout
Range	1 to 90
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

use-default-template *boolean*

Synopsis	Apply the RADIUS default user template to RADIUS user
Context	**configure** service vprn *service-name* aaa remote-servers radius use-default-template *boolean*
Tree	use-default-template
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tacplus

Synopsis	Enable the **tacplus** context
Context	**configure** service vprn *service-name* aaa remote-servers tacplus
Tree	tacplus
Introduced	25.3.R2
Platforms	SAR Gen 2

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accounting

Synopsis	Enable the **accounting** context
Context	**configure** service vprn *service-name* aaa remote-servers tacplus accounting
Tree	accounting
Introduced	25.3.R2
Platforms	SAR Gen 2

record-type *keyword*

Synopsis	Type of accounting record packet sent to TACACS+ server
Context	**configure** service vprn *service-name* aaa remote-servers tacplus accounting record-type *keyword*
Tree	record-type
Options	start-stop, stop-only
Default	stop-only
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the TACACS+ protocol
Context	**configure** service vprn *service-name* aaa remote-servers tacplus admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authorization

Synopsis	Enable the **authorization** context
Context	**configure** service vprn *service-name* aaa remote-servers tacplus authorization
Tree	authorization
Introduced	25.3.R2

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Platforms	SAR Gen 2

request-format

Synopsis	Enter the **request-format** context
Context	**configure** service vprn *service-name* aaa remote-servers tacplus authorization request-format
Tree	request-format
Description	Commands in this context configure access operations that are sent to the TACACS+ server during authorization.
Introduced	25.3.R2
Platforms	SAR Gen 2

access-operation-cmd *keyword*

Synopsis	Access operations sent in authorization requests
Context	**configure** service vprn *service-name* aaa remote-servers tacplus authorization request-format access-operation-cmd *keyword*
Tree	access-operation-cmd
Description	This command sends an operation argument in authorization requests. In model-driven interfaces, this command configures the system to send the operation in the cmd argument, and the path in the cmd-args argument, in TACACS+ authorization requests. This command does not apply to authorization requests in classic interfaces.
Options	delete
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

use-priv-lvl *boolean*

Synopsis	Allow privilege level mapping
Context	**configure** service vprn *service-name* aaa remote-servers tacplus authorization use-priv-lvl *boolean*
Tree	use-priv-lvl
Description	When configured to **true**, this command automatically performs a single authorization request to the TACACS+ server for cmd* (all commands) immediately after login, and then uses the local profile associated (via the **priv-lvl-map**) with the priv-lvl returned by

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the TACACS+ server for all subsequent authorization (except **enable-admin**). After the initial authorization for cmd*, no further authorization requests are sent to the TACACS+ server (except **enable-admin**).

When configured to **false**, each command is sent to the TACACS+ server for authorization (this is true regardless of whether the **tacplus use-default-template** setting is enabled).

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-unknown-mandatory-vsas *boolean*

Synopsis	Ignore unknown mandatory VSAs and fail authentication
Context	**configure** service vprn *service-name* aaa remote-servers tacplus ignore-unknown-mandatory-vsas *boolean*
Tree	ignore-unknown-mandatory-vsas
Description	When configured to **true**, the system ignores unknown mandatory VSAs and authentication succeeds. When configured to **false**, the system ignores unknown mandatory VSAs received in a reply from the TACACS+ server. Authentication fails and the user is disconnected because the system cannot process a mandatory VSA that is unknown.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interactive-authentication *boolean*

Synopsis	Allows TACACS+ interactive authentication
Context	**configure** service vprn *service-name* aaa remote-servers tacplus interactive-authentication *boolean*
Tree	interactive-authentication
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

priv-lvl-map

Synopsis	Enter the **priv-lvl-map** context

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Context	**configure** service vprn *service-name* aaa remote-servers tacplus priv-lvl-map
Tree	priv-lvl-map
Introduced	25.3.R2
Platforms	SAR Gen 2

priv-lvl [level] *number*

Synopsis	Enter the **priv-lvl** list instance
Context	**configure** service vprn *service-name* aaa remote-servers tacplus priv-lvl-map priv-lvl *number*
Tree	priv-lvl
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level**] *number*

Synopsis	Privilege level for the mapping
Context	**configure** service vprn *service-name* aaa remote-servers tacplus priv-lvl-map priv-lvl *number*
Tree	priv-lvl
Range	0 to 15
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

user-profile-name *reference*

Synopsis	User profile for the mapping
Context	**configure** service vprn *service-name* aaa remote-servers tacplus priv-lvl-map priv-lvl *number* user-profile-name *reference*
Tree	user-profile-name
Reference	**configure** system security aaa local-profiles profile *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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server [index] *number*

Synopsis	Enter the **server** list instance
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server *number*
Tree	server
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	TACACS+ server ID
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server *number*
Tree	server
Range	1 to 5
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the TACACS+ server
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP port ID on which to contact TACACS+ server
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server *number* port *number*
Tree	port

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Range	0 | 1 to 65535
Default	49
Introduced	25.3.R2
Platforms	SAR Gen 2

secret *encrypted-leaf*

Synopsis	Secret key to access the TACACS+ server
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server *number* secret *encrypted-leaf*
Tree	secret
Description	This command specifies the secret key to access the TACACS+ server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-retry-timeout *(number | keyword)*

Synopsis	Time before retrying requests when health checks are disabled
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server-retry-timeout *(number | keyword)*
Tree	server-retry-timeout
Description	This command configures the maximum timeout before retrying requests when health checks are disabled and all TACACS+ servers are operationally down. Set the value of this timer to a lower value or disable it to increase the interactive responsiveness of AAA requests after the servers become unreachable.
Range	1 to 300
Units	seconds
Options	none – Disable retry timeout and send requests immediately
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

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server-timeout *number*

Synopsis	Time to wait for a response from the TACACS+ server
Context	**configure** service vprn *service-name* aaa remote-servers tacplus server-timeout *number*
Tree	server-timeout
Range	1 to 90
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

service-request

Synopsis	Enter the **service-request** context
Context	**configure** service vprn *service-name* aaa remote-servers tacplus service-request
Tree	service-request
Description	Commands in this context enable Nokia services to be requested from the TACACS+ server.
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-grpc-rpc-authorization *boolean*

Synopsis	Request nokia-grpc-rpc-authorization service VSAs
Context	**configure** service vprn *service-name* aaa remote-servers tacplus service-request nokia-grpc-rpc-authorization *boolean*
Tree	nokia-grpc-rpc-authorization
Description	When configured to **true**, the nokia-grpc-rpc-authorization service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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nokia-netconf-base-op-authorization *boolean*

Synopsis	Request nokia-netconf-base-op-authorization service VSAs
Context	**configure** service vprn *service-name* aaa remote-servers tacplus service-request nokia-netconf-base-op-authorization *boolean*
Tree	nokia-netconf-base-op-authorization
Description	When configured to **true**, the nokia-netconf-base-op-authorization service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-user *boolean*

Synopsis	Request nokia-user service VSAs
Context	**configure** service vprn *service-name* aaa remote-servers tacplus service-request nokia-user *boolean*
Tree	nokia-user
Description	When configured to **true**, the nokia-user service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-user-profile *boolean*

Synopsis	Request nokia-user-profile service VSAs
Context	**configure** service vprn *service-name* aaa remote-servers tacplus service-request nokia-user-profile *boolean*
Tree	nokia-user-profile
Description	When configured to **true**, the nokia-user-profile service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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use-default-template *boolean*

Synopsis	Apply TACACS+ default user-template to TACACS+ user
Context	**configure** service vprn *service-name* aaa remote-servers tacplus use-default-template *boolean*
Tree	use-default-template
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the service
Context	**configure** service vprn *service-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregates

Synopsis	Enter the **aggregates** context
Context	**configure** service vprn *service-name* aggregates
Tree	aggregates
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregate [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **aggregate** list instance
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)*
Tree	aggregate
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Destination IP address prefix of the aggregate route
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)*
Tree	aggregate
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregator

Synopsis	Enter the **aggregator** context
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* aggregator
Tree	aggregator
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Aggregator IP address
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* aggregator address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Aggregator AS number
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* aggregator as-number *number*
Tree	as-number
Range	1 to 4294967295

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Introduced	25.3.R2
Platforms	SAR Gen 2

as-set *boolean*

Synopsis	Use AS_SET path segment type for the aggregate route
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* as-set *boolean*
Tree	as-set
Description	When configured to **true**, the AS_PATH attribute of the aggregate contains an AS_SET containing all AS numbers from the contributing routes. This can increase the amount of churn due to best-path changes. When configured to **false**, the AS_PATH attribute contains no AS_SET and will be originated by the ESR.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole

Synopsis	Enable the **blackhole** context
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* blackhole
Tree	blackhole
Notes	The following elements are part of a choice: **blackhole** or **indirect**.
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-icmp *boolean*

Synopsis	Send ICMP unreachable messages for aggregate routes
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* blackhole generate-icmp *boolean*
Tree	generate-icmp
Description	When configured to **true**, ICMP unreachable messages are sent when packets match an aggregate route in the FIB with a black-hole next-hop. When configured to **false**, ICMP unreachable messages are not generated.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community name that is added to the aggregate route
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* community *community*
Tree	community
Description	This command associates a BGP community with the aggregate route. The community name can be matched in route policies and is automatically added to BGP routes exported from the aggregate route.
String length	1 to 72
Max. instances	12
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-component-communities *boolean*

Synopsis	Advertise aggregate with aggregate route community set
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* discard-component-communities *boolean*
Tree	discard-component-communities

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Address of the indirect next hop
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	indirect
Description	This command programs aggregate routes into the forwarding table with an indirect next hop. If a packet matches the aggregate route but not a contributing route, it is forwarded toward the indirect next hop rather than being discarded.
Notes	The following elements are part of a choice: **blackhole** or **indirect**.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Local preference used when aggregate route is exported
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* local-preference *number*
Tree	local-preference
Description	This command configures the local preference value to use when the aggregate route is exported rather than using any of the local preference values assigned for any of the contributing routes.
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	Policy name for the aggregated route

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Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* policy *reference*
Tree	policy
Description	This command associates an aggregate route with a policy reference. The aggregated route is activated only when there is at least one eligible active route in the sub-trees below it that is accepted by the policy evaluation. There is no evaluation into any sub-tree that starts with another active aggregate route. Eligible routes exclude host routes and LDP shortcut routes. If an aggregate route has no policy, or the reference is to an empty policy, this configuration is treated as equivalent to a policy with one rule that accepts all routes.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

summary-only *boolean*

Synopsis	Advertise the aggregate route only
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* summary-only *boolean*
Tree	summary-only
Description	When configured to **true**, the router suppresses the advertisement of more specific component routes for the aggregate. When configured to **false**, the router advertises both the aggregate route and its contributing routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group *number*

Synopsis	Tunnel group from which to associate the MC IPSec state
Context	**configure** service vprn *service-name* aggregates aggregate *(ipv4-prefix | ipv6-prefix)* tunnel-group *number*
Tree	tunnel-group
Description	This command adds the MC-IPsec state of the specific tunnel-group to the aggregate route.
Range	1 to 64
Introduced	25.3.R2

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Platforms	SAR Gen 2

allow-export-bgp-vpn *boolean*

Synopsis	Include BGP-VPN routes for export
Context	**configure** service vprn *service-name* allow-export-bgp-vpn *boolean*
Tree	allow-export-bgp-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

autonomous-system *number*

Synopsis	AS number advertised to peers for this router
Context	**configure** service vprn *service-name* autonomous-system *number*
Tree	autonomous-system
Description	This command configures the autonomous system (AS) number for the router. This value must be set before BGP can be activated. If the AS number is changed on a router with an active BGP instance, the new AS number is not used until the BGP instance is restarted.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp

Synopsis	Enable the **bgp** context
Context	**configure** service vprn *service-name* bgp
Tree	bgp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the BGP instance
Context	**configure** service vprn *service-name* bgp admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-inactive *boolean*

Synopsis	Advertise inactive BGP routes to peers
Context	**configure** service vprn *service-name* bgp advertise-inactive *boolean*
Tree	advertise-inactive
Description	When configured to **true**, this command allows any inactive BGP route to be advertised, even though it is not the used route. When configured to **false**, the advertisement of inactive BGP routes to other BGP peers is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-ipv6-next-hops

Synopsis	Enter the **advertise-ipv6-next-hops** context
Context	**configure** service vprn *service-name* bgp advertise-ipv6-next-hops
Tree	advertise-ipv6-next-hops
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable IPv4 routes to be advertised
Context	**configure** service vprn *service-name* bgp advertise-ipv6-next-hops ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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aggregator-id-zero *boolean*

Synopsis	Set router ID in the BGP AGGREGATOR attribute to 0
Context	**configure** service vprn *service-name* bgp aggregator-id-zero *boolean*
Tree	aggregator-id-zero
Description	When configured to **true**, the router ID in the BGP AGGREGATOR path attribute is set to 0 when BGP aggregates routes. This prevents different routers within an AS from creating aggregate routes for the same prefix with different path attributes. When configured to **false**, the AS number and router ID are added to the AGGREGATOR path attribute.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

asn-4-byte *boolean*

Synopsis	Advertise support for 4-byte ASNs
Context	**configure** service vprn *service-name* bgp asn-4-byte *boolean*
Tree	asn-4-byte
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

attribute-set

Synopsis	Enter the **attribute-set** context
Context	**configure** service vprn *service-name* bgp attribute-set
Tree	attribute-set
Description	Commands in this context configure the handling of attribute set (ATTR_SET) attributes in BGP routes received from PE-CE peers of the VPRN. ATTR_SET is an optional transitive BGP path attribute standardized by RFC 6368 that is added to BGP L3 VPN routes to provide logical separation between the BGP domain of a customer and the BGP domain of a service provider.
Introduced	25.3.R2
Platforms	SAR Gen 2

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remove *boolean*

Synopsis	Remove ATTR_SET in received BGP routes from PE-CE peers
Context	**configure** service vprn *service-name* bgp attribute-set remove *boolean*
Tree	remove
Description	When configured to **true**, BGP ignores and silently discards ATTR_SETs in BGP routes received from PE-CE peers of the VPRN. The discarded ATTR_SETs do not affect BGP best path selection in the VPRN, and they do not appear in the VPN-IP routes that result from the VRF export of the BGP routes. Nokia recommends configuring this command to **true** in most deployments. When configured to **false**, BGP ignores ATTR_SETs in BGP routes received from PE-CE peers of the VPRN, but does not discard them. This allows the ATTR_SETs to propagate between CE devices connected to the VPRN and to other PE devices when the BGP routes are exported as VPN-IP routes. **Note:** If the configuration of this command is changed, ROUTE_REFRESH messages are sent to all PE-CE peers of the VPRN.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	BGP authentication key for all peers
Context	**configure** service vprn *service-name* bgp authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key used to protect all sessions. The stored format of the authentication key is based on the **configure system security hash-control management-interface md-cli hash-algorithm** setting. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** service vprn *service-name* bgp authentication-keychain *reference*

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Tree	authentication-keychain
Description	This command associates the keychain to be used to authenticate the BGP session. The keychain allows the rollover of authentication keys during the lifetime of a session.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-path

Synopsis	Enter the **backup-path** context
Context	**configure** service vprn *service-name* bgp backup-path
Tree	backup-path
Description	Commands in this context enable the use of a backup path for specified BGP-learned prefixes belonging to the base router. Multiple paths must be received for a prefix in order to take advantage of this feature. When a prefix has a backup path and its primary paths fail, the affected traffic is rapidly diverted to the backup path without waiting for control plane re-convergence to occur. When many prefixes share the same primary paths and in some cases, the same backup path, the time to divert failover traffic to the backup path is independent of the number of prefixes. By default, IPv4 and IPv6 prefixes do not have a backup path installed in the IOM.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp backup-path ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** service vprn *service-name* bgp backup-path ipv6 *boolean*
Tree	ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp backup-path label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Enable support for labeled unicast IPv6 routes
Context	**configure** service vprn *service-name* bgp backup-path label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

best-path-selection

Synopsis	Enter the **best-path-selection** context
Context	**configure** service vprn *service-name* bgp best-path-selection
Tree	best-path-selection
Introduced	25.3.R2
Platforms	SAR Gen 2

always-compare-med

Synopsis	Enter the **always-compare-med** context
Context	**configure** service vprn *service-name* bgp best-path-selection always-compare-med
Tree	always-compare-med

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Description	Commands in this context determine how the BGP decision process is affected by the MED path attribute.
Introduced	25.3.R2
Platforms	SAR Gen 2

med-value *keyword*

Synopsis	Action for a missing MED attribute
Context	**configure** service vprn *service-name* bgp best-path-selection always-compare-med med-value *keyword*
Tree	med-value
Options	off, missing-med-zero, missing-med-infinity, on
Default	off
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-as *boolean*

Synopsis	Compare MED only for routes from same neighbor AS
Context	**configure** service vprn *service-name* bgp best-path-selection always-compare-med strict-as *boolean*
Tree	strict-as
Description	When configured to **true**, the route selection process can compare the MED path attribute between routes only if they come from the same neighbor AS. When configured to **false**, the route selection process can compare the MED path attribute between routes even if they come from different neighbor ASs.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

as-path-ignore

Synopsis	Enter the **as-path-ignore** context
Context	**configure** service vprn *service-name* bgp best-path-selection as-path-ignore
Tree	as-path-ignore

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Description	Commands in this context determine whether the AS path length is considered in the selection process for routes of the specified address families.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Ignore AS path length for unlabeled unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp best-path-selection as-path-ignore ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Ignore AS path length for unlabeled unicast IPv6 routes
Context	**configure** service vprn *service-name* bgp best-path-selection as-path-ignore ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Ignore AS path length for labeled-unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp best-path-selection as-path-ignore label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv6 *boolean*

Synopsis	Ignore AS path length for labeled unicast IPv6 routes
Context	**configure** service vprn *service-name* bgp best-path-selection as-path-ignore label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

compare-origin-validation-state *boolean*

Synopsis	Allow comparison of origin validation states
Context	**configure** service vprn *service-name* bgp best-path-selection compare-origin-validation-state *boolean*
Tree	compare-origin-validation-state
Description	When configured to **true**, the RPKI origin validation state is compared between BGP routes, where a Valid state is preferred over a Not-Found state, and a Not-Found state is preferred over an Invalid state. When configured to **false**, the RPKI origin validate state comparison is not performed as part of the BGP route selection process.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

deterministic-med *boolean*

Synopsis	Group paths based on AS before MED attribute comparison
Context	**configure** service vprn *service-name* bgp best-path-selection deterministic-med *boolean*
Tree	deterministic-med
Description	When configured to **true**, BGP groups paths from the same AS that are equal up to the MED attribute comparison and then compares the best path from each group to select the overall best path. This process ensures that the best-path selection process is deterministic in all cases. When configured to **false**, paths are not grouped and the overall best-path selection can depend on the order of route arrival.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-ibgp-equal

Synopsis	Enter the **ebgp-ibgp-equal** context
Context	**configure** service vprn *service-name* bgp best-path-selection ebgp-ibgp-equal
Tree	ebgp-ibgp-equal
Description	Commands in this context allow BGP to ignore the difference between EBGP and IBGP routes in selecting the best path and eligible multipaths (if multipath and ECMP are enabled) for the specified address families. The result is a form of EIBGP load-balancing in a multipath scenario. This behavior can be applied selectively to certain address families. By default, the BGP decision process prefers an EBGP learned route over an IBGP learned route.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Consider EBGP and IBGP IPv4 routes equal
Context	**configure** service vprn *service-name* bgp best-path-selection ebgp-ibgp-equal ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Consider EBGP and IBGP IPv6 routes equal
Context	**configure** service vprn *service-name* bgp best-path-selection ebgp-ibgp-equal ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv4 *boolean*

Synopsis	Consider EBGP and IBGP label-IPv4 routes equal
Context	**configure** service vprn *service-name* bgp best-path-selection ebgp-ibgp-equal label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6 *boolean*

Synopsis	Consider EBGP and IBGP label-IPv6 routes equal
Context	**configure** service vprn *service-name* bgp best-path-selection ebgp-ibgp-equal label-ipv6 *boolean*
Tree	label-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-nh-metric *boolean*

Synopsis	Ignore next-hop distance in best path selection
Context	**configure** service vprn *service-name* bgp best-path-selection ignore-nh-metric *boolean*
Tree	ignore-nh-metric
Description	When configured to **true**, BGP ignores the resolved distance to the BGP next hop in its route selection process. When configured to **false**, BGP factors the distance to the next hop into its decision process when it compares two BGP routes with the same NLRI learned from base router BGP peers (in the **router** context) or IP prefix learned from VPRN BGP peers (in the **vprn** context).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-router-id

Synopsis	Enable the **ignore-router-id** context
Context	**configure** service vprn *service-name* bgp best-path-selection ignore-router-id
Tree	ignore-router-id
Description	Commands in this context determine whether the BGP selection process ignores the BGP identifier (router ID) comparison of two EBGP paths from different EBGP peers when determining the best path for the specified address families. By default, BGP selects the path with the lower router ID when it compares two paths from EBGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-invalid-unusable *boolean*

Synopsis	Ignore routes with invalid origin validation state
Context	**configure** service vprn *service-name* bgp best-path-selection origin-invalid-unusable *boolean*
Tree	origin-invalid-unusable
Description	When configured to **true**, routes that have an RPKI origin validation state of Invalid are considered unusable by the best-path selection algorithm. These routes cannot be used for forwarding and cannot be advertised to BGP peers. When configured to **false**, routes with an RPKI origin validation state of Invalid are compared to other usable routes for the same prefix, according to the BGP decision process.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** service vprn *service-name* bgp bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, BFD is enabled on all BGP sessions, subject to the association of those BGP sessions with IP interfaces that have BFD configurations. When configured to **false**, BFD is not enabled globally for all BGP sessions.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-strict-mode

Synopsis	Enter the **bfd-strict-mode** context
Context	**configure** service vprn *service-name* bgp bfd-strict-mode
Tree	bfd-strict-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** service vprn *service-name* bgp bfd-strict-mode advertise
Tree	advertise
Description	Commands in this context configure BGP to advertise the Strict-BFD capability to peers that are within scope of this command and meet the following requirements: • The inherited or configured value for the **bfd-liveness** command that applies to the peer is **true**. • The interface associated with the peer has a valid BFD configuration. When the preceding conditions are satisfied and two peers attempting to form a session both advertise the Strict-BFD capability, the BGP finite state machine in each router transitions the session state to established after the BFD session with the peer enters the up state. When unconfigured, BGP does not advertise the Strict-BFD capability to peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Maximum time BGP waits for the BFD session to come up
Context	**configure** service vprn *service-name* bgp bfd-strict-mode advertise holdtime *number*
Tree	holdtime
Description	This command configures the maximum time BGP waits for the BFD session to come up, provided that the Strict-BFD procedures apply to a session, and the negotiated BGP

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hold time is zero (no keepalives). If the negotiated BGP hold time is greater than zero, the advertised hold time is not considered.

Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-reachability *boolean*

Synopsis	Consider next hop unreachable if BFD session is down
Context	**configure** service vprn *service-name* bgp bfd-strict-mode next-hop-reachability *boolean*
Tree	next-hop-reachability
Description	When configured to **true**, the router considers next-hop self routes belonging to specific address families received from a peer within scope of this command as having an unresolved next hop, provided that the following requirements are met: • The BFD session to the peer is in a down state. • There is a valid interface BFD configuration that applies to the peer. • There is a valid BFD liveness configuration that applies to the peer. The unresolved state is maintained until the BFD session state changes to up or administratively down, even if there is a resolving route or tunnel that matches the BGP next-hop address. Routes received from one peer with a BGP next-hop address equal to the address of another peer are not affected by the BFD session to the other peer. The behavior of the router when this command is **true** does not depend on whether Strict-BFD is used, as both features are independent. Configuring this command to **true** only affects routes belonging to the following address families: • IPv4 • IPv6 • IPv4 VPN • IPv6 VPN • labeled unicast IPv4 • labeled unicast IPv6 • EVPN • IPv4 multicast • IPv6 multicast • IPv4 VPN multicast

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- IPv6 VPN multicast

When configured to **false**, the router does not consider next-hop self routes belonging to the preceding address families as having an unresolved next hop if the BFD session goes down.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

client-reflect *boolean*

Synopsis	Allow client reflection of routes by route reflector
Context	**configure** service vprn *service-name* bgp client-reflect *boolean*
Tree	client-reflect
Description	When configured to **true**, routes received from neighbors considered to be RR clients are reflected to other peers as expected. When configured to **false**, routes received from neighbors considered to be RR clients are not reflected to other clients.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster

Synopsis	Enter the **cluster** context
Context	**configure** service vprn *service-name* bgp cluster
Tree	cluster
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id *ipv4-address*

Synopsis	Route reflector cluster ID
Context	**configure** service vprn *service-name* bgp cluster cluster-id *ipv4-address*
Tree	cluster-id
Description	The command specifies the cluster ID to associate with the routing instance, effectively making all IBGP peers of the routing instance RR clients.

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

connect-retry *number*

Synopsis	BGP connect retry timer value
Context	**configure** service vprn *service-name* bgp connect-retry *number*
Tree	connect-retry
Description	This command configures the BGP connect retry timer. When the timer expires, BGP tries to reconnect to the configured peer.
Range	1 to 65535
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

convergence

Synopsis	Enter the **convergence** context
Context	**configure** service vprn *service-name* bgp convergence
Tree	convergence
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** service vprn *service-name* bgp convergence family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family for which convergence selection applies

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Context	**configure** service vprn *service-name* bgp convergence family *keyword*
Tree	family
Options	ipv4, ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait-to-advertise *number*

Synopsis	Maximum wait time before advertising routes
Context	**configure** service vprn *service-name* bgp convergence family *keyword* max-wait-to-advertise *number*
Tree	max-wait-to-advertise
Range	0 to 3600
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

min-wait-to-advertise *number*

Synopsis	Minimum wait time before advertising routes
Context	**configure** service vprn *service-name* bgp convergence min-wait-to-advertise *number*
Tree	min-wait-to-advertise
Range	0 to 3600
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

damp-peer-oscillations

Synopsis	Enable the **damp-peer-oscillations** context
Context	**configure** service vprn *service-name* bgp damp-peer-oscillations
Tree	damp-peer-oscillations
Description	Commands in this context support the DampPeerOscillations FSM behavior described in section 8.1 of RFC 4271, *A Border Gateway Protocol 4 (BGP-4)*.

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When unconfigured, the router does not perform peer oscillation damping and immediately transitions out of the idle state after every reset.

Introduced 25.3.R2

Platforms SAR Gen 2

error-interval *number*

Synopsis Time after a reset that the session must be error-free

Context **configure** service vprn *service-name* bgp damp-peer-oscillations error-interval *number*

Tree error-interval

Description This command sets the interval of time after a reset, during which the session must be error-free in order to reset the penalty counter and return the idle hold time to the initial wait time.

Range 0 to 2048

Default 30

Introduced 25.3.R2

Platforms SAR Gen 2

idle-hold-time

Synopsis Enter the **idle-hold-time** context

Context **configure** service vprn *service-name* bgp damp-peer-oscillations idle-hold-time

Tree idle-hold-time

Description Commands in this context configure how long a BGP peer session remains in the idle state after some type of error causes the session to reset.

In the idle state, BGP does not initiate or respond to attempts to establish a new session. Repeated errors that occur in a short time period after each session reset cause longer and longer hold times in the idle state.

Introduced 25.3.R2

Platforms SAR Gen 2

initial-wait *number*

Synopsis Time session remains in idle state after stabilization

Context **configure** service vprn *service-name* bgp damp-peer-oscillations idle-hold-time initial-wait *number*

Tree initial-wait

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Range	0 to 2048
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait *number*

Synopsis	Maximum session idle time after repeated instability
Context	**configure** service vprn *service-name* bgp damp-peer-oscillations idle-hold-time max-wait *number*
Tree	max-wait
Range	1 to 2048
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Time that doubles after each session failure
Context	**configure** service vprn *service-name* bgp damp-peer-oscillations idle-hold-time second-wait *number*
Tree	second-wait
Description	This command defines the hold time that doubles after each repeated session failure that occurs in a short span of time.
Range	1 to 2048
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *boolean*

Synopsis	Use BGP route damping to reduce route flap
Context	**configure** service vprn *service-name* bgp damping *boolean*
Tree	damping

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Description	When configured to **true**, this command enables route damping to reduce the number of update messages sent between BGP peers and reduce the load on peers without affecting the route convergence time for stable routes. Route damping is controlled by profiles set in route policies. If no profile is specified in the route policy, the default damping profile is used with the following parameters: • Half-life: 15 minutes • Max-suppress: 60 minutes • Suppress-threshold: 3000 • Reuse-threshold: 750 When configured to **false**, BGP route damping for learned routes is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

default-label-preference

Synopsis	Enter the **default-label-preference** context
Context	**configure** service vprn *service-name* bgp default-label-preference
Tree	default-label-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** service vprn *service-name* bgp default-label-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** service vprn *service-name* bgp default-label-preference ibgp *number*

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Tree	ibgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

default-preference

Synopsis	Enter the **default-preference** context
Context	**configure** service vprn *service-name* bgp default-preference
Tree	default-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** service vprn *service-name* bgp default-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** service vprn *service-name* bgp default-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* bgp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-neighbor-limit *number*

Synopsis	Max dynamic BGP sessions to accept from remote peers
Context	**configure** service vprn *service-name* bgp dynamic-neighbor-limit *number*
Tree	dynamic-neighbor-limit
Description	This command configures the maximum number of dynamic BGP sessions to accept from remote peers associated with the entire BGP instance. If accepting a new dynamic session causes the instance limit to be exceeded, the new session attempt is rejected and a Notification message is sent back to the remote peer.
Range	1 to 8192
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-default-reject-policy

Synopsis	Enter the **ebgp-default-reject-policy** context
Context	**configure** service vprn *service-name* bgp ebgp-default-reject-policy
Tree	ebgp-default-reject-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Enable default reject export policy for external peers
Context	**configure** service vprn *service-name* bgp ebgp-default-reject-policy export *boolean*
Tree	export

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

import *boolean*

Synopsis	Enable default reject import policy for external peers
Context	**configure** service vprn *service-name* bgp ebgp-default-reject-policy import *boolean*
Tree	import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

eibgp-loadbalance *boolean*

Synopsis	Use ECMP over BGP VPN and BGP routes
Context	**configure** service vprn *service-name* bgp eibgp-loadbalance *boolean*
Tree	eibgp-loadbalance
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-first-as *boolean*

Synopsis	Enforce the configured peer AS value in received routes
Context	**configure** service vprn *service-name* bgp enforce-first-as *boolean*
Tree	enforce-first-as
Description	When configured to **true** for an EBGP session, all routes received from an EBGP peer are checked to ensure that the most recent ASN in the AS_PATH attribute of each route matches the configured AS of the session. If there is not a match, the session is reset (if the **update-fault-tolerance** command in the **error-handling** context is set to **false**) or the session is left up but the route is treated as withdrawn (if **update-fault-tolerance** is set to **true**). This command does not flap an established session because it applies only to routes received after the command is issued. When configured to **false**, received routes are not checked for compliance with the rule.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

error-handling

Synopsis	Enter the **error-handling** context
Context	**configure** service vprn *service-name* bgp error-handling
Tree	error-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

legacy-mode *boolean*

Synopsis	Enable legacy-mode of BGP error handling
Context	**configure** service vprn *service-name* bgp error-handling legacy-mode *boolean*
Tree	legacy-mode
Description	When configured to **true**, the BGP instance handles the BGP update error messages based on the configured **update-fault-tolerance** commands. If these commands are not explicitly configured, BGP error handling follows the legacy procedures described in RFC 4271, which can result in disruptive session resets. When configured to **false**, the BGP instance ignores the configured **update-fault-tolerance** commands and applies the new error handling procedures described in RFC 7606 on all sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

update-fault-tolerance *boolean*

Synopsis	Tolerate non-critical errors in UPDATE messages
Context	**configure** service vprn *service-name* bgp error-handling update-fault-tolerance *boolean*
Tree	update-fault-tolerance
Description	When configured to **true**, non-critical errors are handled with treat-as-withdraw, attribute-discard, and other non-disruptive approaches that do not cause a session reset. Critical errors still trigger a session reset. When configured to **false**, most errors trigger a session reset.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Enable the **export** context
Context	**configure** service vprn *service-name* bgp export
Tree	export
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Export policy name
Context	**configure** service vprn *service-name* bgp export policy *(policy-expr-string | string)*
Tree	policy
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-nh-encoding

Synopsis	Enter the **extended-nh-encoding** context
Context	**configure** service vprn *service-name* bgp extended-nh-encoding
Tree	extended-nh-encoding
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *boolean*

Synopsis	Enable IPv4 family type
Context	**configure** service vprn *service-name* bgp extended-nh-encoding ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family

Synopsis	Enter the **family** context
Context	**configure** service vprn *service-name* bgp family
Tree	family
Description	Commands in this context specify the BGP address families supported by the base router BGP sessions.
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-ipv6 *boolean*

Synopsis	Advertise support for the FlowSpec-IPv6 address family
Context	**configure** service vprn *service-name* bgp family flow-ipv6 *boolean*
Tree	flow-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Advertise MP-BGP support for the IPv4 address family
Context	**configure** service vprn *service-name* bgp family ipv4 *boolean*
Tree	ipv4
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the IPv6 address family
Context	**configure** service vprn *service-name* bgp family ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise support for the label-IPv4 address family
Context	**configure** service vprn *service-name* bgp family label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv4 *boolean*

Synopsis	Advertise support for the MCAST-IPv4 address family
Context	**configure** service vprn *service-name* bgp family mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Advertise support for the MCAST-IPv6 address family
Context	**configure** service vprn *service-name* bgp family mcast-ipv6 *boolean*
Tree	mcast-ipv6
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

fast-external-failover *boolean*

Synopsis	Drop external BGP session immediately when link fails
Context	**configure** service vprn *service-name* bgp fast-external-failover *boolean*
Tree	fast-external-failover
Description	When configured to **true**, the router drops an external BGP session to a single-hop neighbor immediately when the local interface goes down. When configured to **false**, the BGP session remains up until the hold time expires.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** service vprn *service-name* bgp graceful-restart
Tree	graceful-restart
Introduced	25.3.R2
Platforms	SAR Gen 2

gr-notification *boolean*

Synopsis	Perform Graceful Restart procedures
Context	**configure** service vprn *service-name* bgp graceful-restart gr-notification *boolean*
Tree	gr-notification
Description	When configured to **true**, the Graceful Restart capability sent by the router indicates support for NOTIFICATION messages. If the peer also supports this capability, the session is restarted gracefully (while preserving forwarding) if either peer sends a NOTIFICATION message due to some type of event or error. When configured to **false**, NOTIFICATION messages are not supported.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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long-lived

Synopsis	Enable the **long-lived** context
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived
Tree	long-lived
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-stale-to-all-neighbors *boolean*

Synopsis	Advertise stale routes to all BGP peers
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived advertise-stale-to-all-neighbors *boolean*
Tree	advertise-stale-to-all-neighbors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived family *keyword*
Tree	family
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for LLGR
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived family *keyword*
Tree	family
Options	ipv4, ipv6, flow-ipv4, flow-ipv6, label-ipv4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time for family override
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived family *keyword* advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived family *keyword* helper-override-stale-time *number*
Tree	helper-override-stale-time
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

forwarding-bits-set *keyword*

Synopsis	BGP LLGR forwarding-bit behavior for address family

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Context	**configure** service vprn *service-name* bgp graceful-restart long-lived forwarding-bits-set *keyword*
Tree	forwarding-bits-set
Description	This command determines the setting of the F bit in the GR and LLGR capabilities advertised by the router. When the F bit is set for an address family, it indicates that the advertising router is able to preserve forwarding state for the routes of that address family across the last restart. When the session is re-established after a restart and the F bit is not set, all stale routes from the peer are immediately removed for the corresponding address family. This command allows the F bit to be set for all address families or only for non-forwarding address families (L2-VPN, route target, flow-IPv4, and flow-IPv6).
Options	none, all, non-fwd
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-restart-time *number*

Synopsis	Locally-configured override for restart time
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived helper-override-restart-time *number*
Tree	helper-override-restart-time
Description	This command overrides the restart time advertised by a peer (in its GR capability) with a locally-configured value. This override applies only to AFI/SAFI that were included in the GR capability of the peer. The restart-time is always zero for AFI/SAFI not included in the GR capability. This command is useful if the local router wants to force the LLGR phase to begin after a set time for all protected AFI/SAFI.
Range	0 to 4095
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived helper-override-stale-time *number*
Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability.

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This command applies to all AFI/SAFI in the advertised LLGR capability except for any AFI/SAFI with a family-specific override.

Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

without-no-export *boolean*

Synopsis	Advertise LLGR stale routes to non-LLGR peers
Context	**configure** service vprn *service-name* bgp graceful-restart long-lived without-no-export *boolean*
Tree	without-no-export
Description	When configured to **true**, LLGR stale routes can be advertised to any peer (EBGP or IBGP) that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0. When configured to **false**, LLGR stale routes are not advertised to any EBGP peer that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0 and a NO_EXPORT standard community is automatically added to the routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

restart-time *number*

Synopsis	Restart time advertised by GR capability
Context	**configure** service vprn *service-name* bgp graceful-restart restart-time *number*
Tree	restart-time
Range	0 to 4095
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-routes-time *number*

Synopsis	Maximum time to maintain routes after graceful restart

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Context	**configure** service vprn *service-name* bgp graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Default	360
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *named-item-64*

Synopsis	Enter the **group** list instance
Context	**configure** service vprn *service-name* bgp group *named-item-64*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *named-item-64*

Synopsis	BGP peer group name
Context	**configure** service vprn *service-name* bgp group *named-item-64*
Tree	group
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the BGP group
Context	**configure** service vprn *service-name* bgp group *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2

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Platforms SAR Gen 2

advertise-inactive *boolean*

Synopsis Advertise an inactive BGP route to peers

Context **configure** service vprn *service-name* bgp group *named-item-64* advertise-inactive *boolean*

Tree advertise-inactive

Description When configured to **true**, this command allows an inactive BGP route to be advertised, even though it is not the most preferred route. The effect of the command on advertised unlabeled, labeled, and multicapt IPv4 and IPv6 routes depends on several factors.

- If the active route for the IP prefix is a BGP route, that route is advertised.
- If the active route is a non-BGP route and there are valid inactive BGP routes to the same destination, the best valid inactive route is advertise unless the active non-BGP route is matched and accepted by an export policy applied to the session
- If the active route is a non-BGP route and there are no valid BGP routes to the same destination, no route is advertised unless the active non-BGP route is matched and accepted by an export policy applied to the session.

When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicity configured to **false**.

When this command inherits a value of **false**, the advertisement of inactive BGP routes to other BGP peers is disabled.

Introduced 25.3.R2

Platforms SAR Gen 2

advertise-ipv6-next-hops

Synopsis Enable the **advertise-ipv6-next-hops** context

Context **configure** service vprn *service-name* bgp group *named-item-64* advertise-ipv6-next-hops

Tree advertise-ipv6-next-hops

Introduced 25.3.R2

Platforms SAR Gen 2

ipv4 *boolean*

Synopsis Enable IPv4 routes to be advertised

Context **configure** service vprn *service-name* bgp group *named-item-64* advertise-ipv6-next-hops ipv4 *boolean*

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Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregator-id-zero *boolean*

Synopsis	Set router ID in the BGP AGGREGATOR attribute to zero
Context	**configure** service vprn *service-name* bgp group *named-item-64* aggregator-id-zero *boolean*
Tree	aggregator-id-zero
Introduced	25.3.R2
Platforms	SAR Gen 2

as-override *boolean*

Synopsis	Replace the peer's ASN with the local ASN in AS Path
Context	**configure** service vprn *service-name* bgp group *named-item-64* as-override *boolean*
Tree	as-override
Description	When configured to **true**, the advertising router's local AS replaces all occurrences of the peer AS in the AS_PATH attribute. This command should be used with caution, as it breaks BGP's loop detection mechanism. When configured to **false**, no AS override is performed.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

asn-4-byte *boolean*

Synopsis	Advertise the use of 4-byte ASNs
Context	**configure** service vprn *service-name* bgp group *named-item-64* asn-4-byte *boolean*
Tree	asn-4-byte
Description	When this command inherits a value of **true**, the use of 4-byte ASNs is supported. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**.

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When configured to **false**, this command disables the use of 4-byte ASNs.

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis BGP authentication key for peers in the group

Context **configure** service vprn *service-name* bgp group *named-item-64* authentication-key *encrypted-leaf*

Tree authentication-key

Description This command configures the authentication key that must be configured on both peers. The stored format of the authentication key is based on the **configure system security hash-control management-interface md-cli hash-algorithm** setting**.**

This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 422

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-keychain *reference*

Synopsis TCP authentication keychain for the session

Context **configure** service vprn *service-name* bgp group *named-item-64* authentication-keychain *reference*

Tree authentication-keychain

Description This command associates the keychain to be used to authenticate the BGP session. The keychain allows the rollover of authentication keys during the lifetime of a session.

Reference **configure** system security keychains keychain *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

bfd-liveness *boolean*

Synopsis Enable BFD

Context **configure** service vprn *service-name* bgp group *named-item-64* bfd-liveness *boolean*

Tree bfd-liveness

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Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-strict-mode

Synopsis	Enter the **bfd-strict-mode** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* bfd-strict-mode
Tree	bfd-strict-mode
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* bfd-strict-mode advertise
Tree	advertise
Description	Commands in this context configure BGP to advertise the Strict-BFD capability to peers that are within scope of this command and meet the following requirements: • The inherited or configured value for the **bfd-liveness** command that applies to the peer is **true**. • The interface associated with the peer has a valid BFD configuration. When the preceding conditions are satisfied and two peers attempting to form a session both advertise the Strict-BFD capability, the BGP finite state machine in each router transitions the session state to established after the BFD session with the peer enters the up state. When unconfigured, BGP does not advertise the Strict-BFD capability to peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Maximum time BGP waits for the BFD session to come up
Context	**configure** service vprn *service-name* bgp group *named-item-64* bfd-strict-mode advertise holdtime *number*
Tree	holdtime
Description	This command configures the maximum time BGP waits for the BFD session to come up, provided that the Strict-BFD procedures apply to a session, and the negotiated BGP

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hold time is zero (no keepalives). If the negotiated BGP hold time is greater than zero, the advertised hold time is not considered.

Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-reachability *boolean*

Synopsis	Consider next hop unreachable if BFD session is down
Context	**configure** service vprn *service-name* bgp group *named-item-64* bfd-strict-mode next-hop-reachability *boolean*
Tree	next-hop-reachability
Description	When configured to **true**, the router considers next-hop self routes belonging to specific address families received from a peer within scope of this command as having an unresolved next hop, provided that the following requirements are met: • The BFD session to the peer is in a down state. • There is a valid interface BFD configuration that applies to the peer. • There is a valid BFD liveness configuration that applies to the peer. The unresolved state is maintained until the BFD session state changes to up or administratively down, even if there is a resolving route or tunnel that matches the BGP next-hop address. Routes received from one peer with a BGP next-hop address equal to the address of another peer are not affected by the BFD session to the other peer. The behavior of the router when this command is **true** does not depend on whether Strict-BFD is used, as both features are independent. Configuring this command to **true** only affects routes belonging to the following address families: • IPv4 • IPv6 • IPv4 VPN • IPv6 VPN • labeled unicast IPv4 • labeled unicast IPv6 • EVPN • IPv4 multicast • IPv6 multicast

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- IPv4 VPN multicast
- IPv6 VPN multicast

When configured to **false**, the router does not consider next-hop self routes belonging to the preceding address families as having an unresolved next hop if the BFD session goes down.

Introduced 25.3.R2

Platforms SAR Gen 2

capability-negotiation *boolean*

Synopsis Enable capability negotiation

Context **configure** service vprn *service-name* bgp group *named-item-64* capability-negotiation *boolean*

Tree capability-negotiation

Description When configured to **true**, this command enables the exchange of capabilities.

When configured to **false** and the peering is flapped, new capabilities are not negotiated and strictly IPv4 exchanges are supported with the peer.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

client-reflect *boolean*

Synopsis Allow cluster RR to advertise routes to its clients

Context **configure** service vprn *service-name* bgp group *named-item-64* client-reflect *boolean*

Tree client-reflect

Description When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**.

When the command inherits a value of **true**, client reflection of routes is enabled.

When configured to **false**, this command disables client reflection of routes.

Introduced 25.3.R2

Platforms SAR Gen 2

cluster

Synopsis Enter the **cluster** context

Context **configure** service vprn *service-name* bgp group *named-item-64* cluster

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Tree	cluster
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id *ipv4-address*

Synopsis	Route reflector cluster ID
Context	**configure** service vprn *service-name* bgp group *named-item-64* cluster cluster-id *ipv4-address*
Tree	cluster-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

connect-retry *number*

Synopsis	BGP connect retry timer value
Context	**configure** service vprn *service-name* bgp group *named-item-64* connect-retry *number*
Tree	connect-retry
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

damp-peer-oscillations

Synopsis	Enable the **damp-peer-oscillations** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* damp-peer-oscillations
Tree	damp-peer-oscillations
Description	Commands in this context specify how long a BGP peer session remains in the idle state after an error causes the session to reset. In the idle state, BGP does not initiate or respond to attempts to establish a new session. Repeated errors that occur a short time after each session reset cause longer and longer hold times in the idle state. When unconfigured, command settings are inherited from the global-level configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

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error-interval *number*

Synopsis	Time after a reset that the session must be error-free
Context	**configure** service vprn *service-name* bgp group *named-item-64* damp-peer-oscillations error-interval *number*
Tree	error-interval
Description	This command sets the interval of time after a reset, during which the session must be error-free in order to reset the penalty counter and return the idle hold time to the initial wait time.
Range	0 to 2048
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-hold-time

Synopsis	Enter the **idle-hold-time** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* damp-peer-oscillations idle-hold-time
Tree	idle-hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-wait *number*

Synopsis	Time session remains in idle state after stabilization
Context	**configure** service vprn *service-name* bgp group *named-item-64* damp-peer-oscillations idle-hold-time initial-wait *number*
Tree	initial-wait
Range	0 to 2048
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-wait *number*

Synopsis	Maximum session idle time after repeated instability
Context	**configure** service vprn *service-name* bgp group *named-item-64* damp-peer-oscillations idle-hold-time max-wait *number*
Tree	max-wait
Range	1 to 2048
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Time that doubles after each repeated session failure
Context	**configure** service vprn *service-name* bgp group *named-item-64* damp-peer-oscillations idle-hold-time second-wait *number*
Tree	second-wait
Description	This command defines the hold time that doubles after each repeated session failure that occurs in a short span of time.
Range	1 to 2048
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *boolean*

Synopsis	Use BGP route damping to reduce route flap
Context	**configure** service vprn *service-name* bgp group *named-item-64* damping *boolean*
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

default-label-preference

Synopsis	Enter the **default-label-preference** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* default-label-preference

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Tree	default-label-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** service vprn *service-name* bgp group *named-item-64* default-label-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** service vprn *service-name* bgp group *named-item-64* default-label-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

default-preference

Synopsis	Enter the **default-preference** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* default-preference
Tree	default-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP

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Context	**configure** service vprn *service-name* bgp group *named-item-64* default-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** service vprn *service-name* bgp group *named-item-64* default-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* bgp group *named-item-64* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-neighbor

Synopsis	Enter the **dynamic-neighbor** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor
Tree	dynamic-neighbor
Description	Commands in this context configure dynamic BGP sessions for a peer group.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface [interface-name] *reference*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor interface *reference*
Tree	interface
Description	Commands in this context configure an unnumbered VPRN access IP interface for dynamic neighbors. If this interface connects to a network with other BGP routers, sessions with the other routers can be set up automatically without explicitly configuring them as BGP neighbors. The interface must be IPv6 enabled, but because the interface is considered unnumbered, it does not require an IPv4 address or a global-unicast IPv6 address. The sessions are set up using IPv6 link-local addresses. The BGP unnumbered feature supports all address families that allow IPv6 link-local BGP next-hop addresses. This includes IPv4 with the use of RFC 8950 extensions. When an interface is added to the list of dynamic-neighbor interfaces, an outgoing connection attempt is initiated toward any directly connected router on the interface that announces itself using an ICMPv6 router advertisement message. The session attempt is unsuccessful if the peer type is not EBGP, the reported AS number of the peer does not match one of the allowed values, or the maximum session limit of the interface would be exceeded.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Name of the dynamic neighbor interface
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor interface *reference*
Tree	interface
Reference	**configure** service vprn *service-name* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allowed-peer-as *string*

Synopsis	Allowed peer AS value or range of acceptable values

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Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor interface *reference* allowed-peer-as *string*
Tree	allowed-peer-as
Description	This command specifies a singular allowed peer AS value or a range of acceptable values in the format *n1*..*n*2. All values greater than or equal to *n1* and less than or equal to *n2*are acceptable. For example, if the acceptable peer AS numbers are 65001 to 65005 (range) and 62100 (singular value), configure this command to use a value of [65001..65005 62100].
String format	'allowed-peer-as' must be 4-byte decimal AS number or AS..AS range
Max. instances	32
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sessions *number*

Synopsis	Maximum number of dynamic sessions allowed
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor interface *reference* max-sessions *number*
Tree	max-sessions
Description	This command specifies the maximum number of dynamic sessions that are allowed to be set up on the interface as a result of accepting sessions from link-local addresses or initiating sessions by receiving IPv6 router advertisements.
Range	1 to 255
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **prefix** list instance
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor match prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Dynamic peer prefix for the group
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor match prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allowed-peer-as *string*

Synopsis	Allowed peer AS value or range of acceptable values
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor match prefix *(ipv4-prefix | ipv6-prefix)* allowed-peer-as *string*
Tree	allowed-peer-as
Description	This command specifies a singular allowed peer AS value or a range of acceptable values in the format *n1*..*n*2. All values greater than or equal to *n1* and less than or equal to *n2*are acceptable. For example, if the acceptable peer AS numbers are 65001 to 65005 (range) and 62100 (singular value), configure this command to use a value of [65001..65005 62100].
String format	'allowed-peer-as' must be 4-byte decimal AS number or AS..AS range
Max. instances	32
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dynamic-neighbor-limit *number*

Synopsis	Maximum dynamic BGP sessions to accept from remote peer
Context	**configure** service vprn *service-name* bgp group *named-item-64* dynamic-neighbor-limit *number*
Tree	dynamic-neighbor-limit
Description	This command configures the maximum number of dynamic BGP sessions that are accepted from remote peers associated with a specific peer group. If accepting a new dynamic session causes the group limit to be exceeded, the new session attempt is rejected and a Notification message is sent back to the remote peer. When unconfigured, the setting is inherited from the BGP global-level configuration.
Range	1 to 8192
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-default-reject-policy

Synopsis	Enable the **ebgp-default-reject-policy** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* ebgp-default-reject-policy
Tree	ebgp-default-reject-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Enable default reject export policy for external peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* ebgp-default-reject-policy export *boolean*
Tree	export
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

import *boolean*

Synopsis	Enable default reject import policy for external peers

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Context	**configure** service vprn *service-name* bgp group *named-item-64* ebgp-default-reject-policy import *boolean*
Tree	import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-first-as *boolean*

Synopsis	Enforce the configured peer AS value in received routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* enforce-first-as *boolean*
Tree	enforce-first-as
Introduced	25.3.R2
Platforms	SAR Gen 2

error-handling

Synopsis	Enter the **error-handling** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* error-handling
Tree	error-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

update-fault-tolerance *boolean*

Synopsis	Tolerate non-critical errors in UPDATE messages
Context	**configure** service vprn *service-name* bgp group *named-item-64* error-handling update-fault-tolerance *boolean*
Tree	update-fault-tolerance
Description	When configured to **true**, non-critical errors are handled with treat-as-withdraw, attribute-discard, and other non-disruptive approaches that do not cause a session reset. Critical errors still trigger a session reset. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, all errors trigger a session reset.
Introduced	25.3.R2

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Platforms	SAR Gen 2

evpn-link-bandwidth

Synopsis	Enter the **evpn-link-bandwidth** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* evpn-link-bandwidth
Tree	evpn-link-bandwidth
Introduced	25.3.R2
Platforms	SAR Gen 2

add-to-received-bgp *number*

Synopsis	Weight added to received PE-CE BGP routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* evpn-link-bandwidth add-to-received-bgp *number*
Tree	add-to-received-bgp
Description	This command configures the weight value added to all BGP PE-CE routes for the purpose of weighted ECMP if EVPN-IFL and BGP PE-CE routes are combined into the same ECMP set. For the load-balancing betweeen EVPN-IFL and BGP PE-CE routes the **configure service vprn bgp eibgp-loadbalance** command must already be configured in the system.
Range	1 to 128
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Enable the **export** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* export
Tree	export
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Export policy name

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Context	**configure** service vprn *service-name* bgp group *named-item-64* export policy *(policy-expr-string | string)*
Tree	policy
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-nh-encoding

Synopsis	Enable the **extended-nh-encoding** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* extended-nh-encoding
Tree	extended-nh-encoding
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable IPv4 family type
Context	**configure** service vprn *service-name* bgp group *named-item-64* extended-nh-encoding ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family

Synopsis	Enable the **family** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* family

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Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-ipv6 *boolean*

Synopsis	Advertise support for the FlowSpec-IPv6 address family
Context	**configure** service vprn *service-name* bgp group *named-item-64* family flow-ipv6 *boolean*
Tree	flow-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Add support for the IPv4 address family
Context	**configure** service vprn *service-name* bgp group *named-item-64* family ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the IPv6 address family
Context	**configure** service vprn *service-name* bgp group *named-item-64* family ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise support for the label-IPv4 address family

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Context	**configure** service vprn *service-name* bgp group *named-item-64* family label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv4 *boolean*

Synopsis	Advertise support for the MCAST-IPv4 address family
Context	**configure** service vprn *service-name* bgp group *named-item-64* family mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Advertise support for the MCAST-IPv6 address family
Context	**configure** service vprn *service-name* bgp group *named-item-64* family mcast-ipv6 *boolean*
Tree	mcast-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-external-failover *boolean*

Synopsis	Drop external BGP session immediately when link fails
Context	**configure** service vprn *service-name* bgp group *named-item-64* fast-external-failover *boolean*
Tree	fast-external-failover
Description	When this command inherits a value of **true**, the router drops an external BGP session on a single-hop route immediately when the local interface goes down. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**.

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When configured to **false**, the BGP session remains up until the hold time expires.

Introduced 25.3.R2

Platforms SAR Gen 2

graceful-restart

Synopsis Enable the **graceful-restart** context

Context **configure** service vprn *service-name* bgp group *named-item-64* graceful-restart

Tree graceful-restart

Introduced 25.3.R2

Platforms SAR Gen 2

gr-notification *boolean*

Synopsis Perform graceful restart procedures after NOTIFICATION

Context **configure** service vprn *service-name* bgp group *named-item-64* graceful-restart gr-notification *boolean*

Tree gr-notification

Description When configured to **true**, the Graceful Restart capability sent by the router indicates support for NOTIFICATION messages. If the peer also supports this capability, the session is restarted gracefully (while preserving forwarding) if either peer sends a NOTIFICATION message due to some type of event or error.

When configured to **false**, NOTIFICATION messages are not supported.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

long-lived

Synopsis Enable the **long-lived** context

Context **configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived

Tree long-lived

Introduced 25.3.R2

Platforms SAR Gen 2

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advertise-stale-to-all-neighbors *boolean*

Synopsis	Advertise stale routes to all BGP peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived advertise-stale-to-all-neighbors *boolean*
Tree	advertise-stale-to-all-neighbors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	Advertised long-lived stale time for LLGR routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for LLGR
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived family *keyword*
Tree	family

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Options	ipv4, ipv6, flow-ipv4, flow-ipv6, label-ipv4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time for family override
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived family *keyword* advertised-stale-time *number*
Tree	advertised-stale-time
Description	This command configures the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability with a family-specific override.
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived family *keyword* helper-override-stale-time *number*
Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This is a family-specific override value.
Range	0 to 16777216
Default	16777216
Introduced	25.3.R2
Platforms	SAR Gen 2

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forwarding-bits-set *keyword*

Synopsis	BGP LLGR forwarding-bit behavior for address family
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived forwarding-bits-set *keyword*
Tree	forwarding-bits-set
Description	This command determines the setting of the F bit in the GR and LLGR capabilities advertised by the router. When the F bit is set for an address family, it indicates that the advertising router is able to preserve forwarding state for the routes of that address family across the last restart. When the session is re-established after a restart and the F bit is not set, all stale routes from the peer are immediately removed for the corresponding address family. This command allows the F bit to be set for all address families or only for non-forwarding address families (L2-VPN, route target, flow-IPv4, and flow-IPv6).
Options	none, all, non-fwd
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-restart-time *number*

Synopsis	Locally-configured override for restart time
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived helper-override-restart-time *number*
Tree	helper-override-restart-time
Description	This command overrides the restart time advertised by a peer (in its GR capability) with a locally-configured value. This override applies only to AFI/SAFI that were included in the GR capability of the peer. The restart-time is always zero for AFI/SAFI not included in the GR capability. This command is useful if the local router wants to force the LLGR phase to begin after a set time for all protected AFI/SAFI.
Range	0 to 4095
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived helper-override-stale-time *number*

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Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability except for any AFI/SAFI with a family-specific override.
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

without-no-export *boolean*

Synopsis	Advertise LLGR stale routes to non-LLGR peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart long-lived without-no-export *boolean*
Tree	without-no-export
Description	When configured to **true**, LLGR stale routes can be advertised to any peer (EBGP or IBGP) that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0. When configured to **false**, LLGR stale routes are not advertised to any EBGP peer that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0 and a NO_EXPORT standard community is automatically added to the routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

restart-time *number*

Synopsis	Restart time advertised by GR capability
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart restart-time *number*
Tree	restart-time
Range	0 to 4095
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

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stale-routes-time *number*

Synopsis	Maximum time to maintain routes after graceful restart
Context	**configure** service vprn *service-name* bgp group *named-item-64* graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Default	360
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-hold-time *number*

Synopsis	Minimum hold time between successive messages
Context	**configure** service vprn *service-name* bgp group *named-item-64* hold-time minimum-hold-time *number*
Tree	minimum-hold-time
Description	This command specifies the minimum hold time that is accepted for the session. If a peer proposes a hold time lower than this value, the session attempt is rejected. When unconfigured, the command value is inherited from the BGP global-level setting.
Range	0 | 3 to 65536
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Maximum time BGP waits between successive messages

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Context	**configure** service vprn *service-name* bgp group *named-item-64* hold-time seconds *number*
Tree	seconds
Description	This command configures the maximum time BGP waits between successive messages (either keepalive or update) from its peer before closing the connection. Although the implementation allows setting the keepalive timer at the BGP group level times separately, the configured keepalive timer is overridden by this value under the following circumstances. • If the specified hold time is less than the configured keepalive time, the operational keepalive time is set to a third of the hold-time; the configured keepalive time is not changed. • If the hold time is set to zero, the operational value of the keepalive time is set to zero; the configured keepalive time is not changed. The connection with the peer is up permanently and no keepalive packets are sent to the peer. When unconfigured, the command setting is inherited from the BGP global-level configuration.
Range	0 | 3 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enable the **import** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* import
Tree	import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Route policy name
Context	**configure** service vprn *service-name* bgp group *named-item-64* import policy *(policy-expr-string | string)*
Tree	policy
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15

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Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-send-delay-zero *boolean*

Synopsis	Send BGP updates as soon as the session comes up
Context	**configure** service vprn *service-name* bgp group *named-item-64* initial-send-delay-zero *boolean*
Tree	initial-send-delay-zero
Description	When configured to **true**, BGP updates are sent as soon as the session comes up. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, BGP waits to send UPDATE messages for the minimum route advertisement time after a session is established.
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive *number*

Synopsis	Time after which the BGP KEEPALIVE message is sent
Context	**configure** service vprn *service-name* bgp group *named-item-64* keepalive *number*
Tree	keepalive
Description	This command configures the BGP keepalive timer value. A keepalive message is sent every time this timer expires. This value is generally one-third of the hold time interval configured in the **hold-time seconds** context. Although the implementation allows this keepalive value and the hold time interval to be independently set, under the following circumstances, the configured keepalive value is overridden by the hold time interval value: • If the specified keepalive value is greater than the configured hold time, the specified keepalive value is ignored and the timer value is set to one third of the current hold time value. • If the specified hold time interval is less than the configured keepalive value, the keepalive value is reset to one third of the specified hold time interval. • If the hold time interval is set to zero, the configured keepalive value is ignored. This means that the connection with the peer is up permanently and no keepalive packets are sent to the peer.

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When unconfigured, the command inherits the BGP global-level setting.

Range	0 to 21845
Introduced	25.3.R2
Platforms	SAR Gen 2

label-preference *number*

Synopsis	Route preference for routes from labeled-unicast peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* label-preference *number*
Tree	label-preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

link-bandwidth

Synopsis	Enter the **link-bandwidth** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth
Tree	link-bandwidth
Description	Commands in this context specify the handling of the Link Bandwidth Extended Community attached to specific BGP routes. When all used multipaths of an IP prefix correspond to BGP routes with a Link Bandwidth EC, the datapath is programmed to use weighted ECMP across the BGP next hops in proportion to the bandwidth values.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-from-ebgp

Synopsis	Enter the **accept-from-ebgp** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth accept-from-ebgp
Tree	accept-from-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth accept-from-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth accept-from-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth accept-from-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

add-to-received-ebgp

Synopsis	Enter the **add-to-received-ebgp** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth add-to-received-ebgp
Tree	add-to-received-ebgp

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth add-to-received-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth add-to-received-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth add-to-received-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregate-used-paths

Synopsis	Enter the **aggregate-used-paths** context

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Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth aggregate-used-paths
Tree	aggregate-used-paths
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth aggregate-used-paths ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth aggregate-used-paths ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth aggregate-used-paths label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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send-to-ebgp

Synopsis	Enter the **send-to-ebgp** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth send-to-ebgp
Tree	send-to-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth send-to-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth send-to-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* link-bandwidth send-to-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

local-address *(ipv4-address-no-zone | ipv6-address-no-zone | interface-name)*

Synopsis	Local IP address used when communicating with BGP peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* local-address *(ipv4-address-no-zone | ipv6-address-no-zone | interface-name)*
Tree	local-address
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

local-as

Synopsis	Enter the **local-as** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* local-as
Tree	local-as
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Local (or virtual) BGP AS number
Context	**configure** service vprn *service-name* bgp group *named-item-64* local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

prepend-global-as *boolean*

Synopsis	Prepend global ASN when advertising routes to BGP peer
Context	**configure** service vprn *service-name* bgp group *named-item-64* local-as prepend-global-as *boolean*

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Tree	prepend-global-as
Description	When configured to **true**, the global ASN is added to the AS_PATH attribute in outbound routes sent to the peer. When configured to **false**, the global ASN is not included in the AS_PATH attribute.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

private *boolean*

Synopsis	Hide the local ASN in sent paths learned from peering
Context	**configure** service vprn *service-name* bgp group *named-item-64* local-as private *boolean*
Tree	private
Description	When configured to **true**, the local AS number is only advertised to peers that use the local ASN for establishing BGP peering sessions. When configured to **false**, the local ASN is advertised to all peers, including those that can use the global ASN for establishing BGP peering sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Default local preference if not in incoming routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* local-preference *number*
Tree	local-preference
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect *keyword*

Synopsis	Strategy for loop detection in the AS path
Context	**configure** service vprn *service-name* bgp group *named-item-64* loop-detect *keyword*
Tree	loop-detect

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Options	drop-peer, ignore-loop, off, discard-route
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect-threshold *number*

Synopsis	Threshold for the global ASN in a received AS path
Context	**configure** service vprn *service-name* bgp group *named-item-64* loop-detect-threshold *number*
Tree	loop-detect-threshold
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

med-out *(number | keyword)*

Synopsis	Default MED attribute value to advertise to peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* med-out *(number | keyword)*
Tree	med-out
Max. range	0 to 4294967295
Options	igp-cost
Introduced	25.3.R2
Platforms	SAR Gen 2

min-route-advertisement *number*

Synopsis	Minimum time before a prefix can be advertised to peer
Context	**configure** service vprn *service-name* bgp group *named-item-64* min-route-advertisement *number*
Tree	min-route-advertisement
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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multihop *number*

Synopsis	TTL in IP packet headers for EBGP peers multi-hops away
Context	**configure** service vprn *service-name* bgp group *named-item-64* multihop *number*
Tree	multihop
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multipath-eligible *boolean*

Synopsis	Allow routes from group peers in multipath eligibility
Context	**configure** service vprn *service-name* bgp group *named-item-64* multipath-eligible *boolean*
Tree	multipath-eligible
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-self *boolean*

Synopsis	Advertise routes with local address as next-hop address
Context	**configure** service vprn *service-name* bgp group *named-item-64* next-hop-self *boolean*
Tree	next-hop-self
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation

Synopsis	Enter the **origin-validation** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* origin-validation
Tree	origin-validation
Description	Commands in this context configure the marking of every inbound IPv4, IPv6, and labeled IPv4 route from the BGP peer with one of the following origin validation states: • Valid (0)

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- Not-Found (1)
- Invalid (2)

The configurations apply to all types of VPRN BGP peers, but generally should be applied only to EBGP peers and groups that contain only EBGP peers.

Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* origin-validation ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* origin-validation ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp group *named-item-64* origin-validation label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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passive *boolean*

Synopsis	Enable passive mode for BGP communication
Context	**configure** service vprn *service-name* bgp group *named-item-64* passive *boolean*
Tree	passive
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu-discovery *boolean*

Synopsis	Enable Path MTU Discovery
Context	**configure** service vprn *service-name* bgp group *named-item-64* path-mtu-discovery *boolean*
Tree	path-mtu-discovery
Description	When configured to **true**, Path MTU Discovery (PMTUD) is enabled for the associated TCP connections. When set to **true**, PMTUD is activated toward an IPv4 BGP neighbor and the Don't Fragment (DF) bit is set in the IP header of all IPv4 packets sent to the peer. If any device along the path toward the peer cannot forward the packet because the IP MTU of the interface is smaller than the IP packet size, this device drops the packet and sends an ICMP or ICMPv6 error message encoding the interface MTU. When the router receives the ICMP or ICMPv6 message, it lowers the TCP maximum segment size limit from the previous value so that the IP MTU constraint can be accommodated. When configured to **false** and there is no TCP MSS configuration that can be associated with a BGP neighbor (in either the BGP configuration or the first hop IP interface configuration), the router advertises a value of only 1024 bytes as the TCP MSS option value, limiting received TCP segments to that size.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-as *number*

Synopsis	Peer AS number
Context	**configure** service vprn *service-name* bgp group *named-item-64* peer-as *number*
Tree	peer-as
Range	1 to 4294967295
Introduced	25.3.R2

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Platforms SAR Gen 2

peer-ip-tracking *boolean*

Synopsis Enable BGP peer tracking

Context **configure** service vprn *service-name* bgp group *named-item-64* peer-ip-tracking *boolean*

Tree peer-ip-tracking

Description When configured to **true**, this command enables BGP peer tracking.

Peer tracking should be used with caution. Peer tracking can tear a session down even if the loss of connectivity turns out to be short-lived (for example, while the IGP protocol is re-converging). Next-hop tracking, which is always enabled, handles temporary connectivity issues more effectively.

When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

When this command inherits a value of **false**, peer tracking is disabled.

Introduced 25.3.R2

Platforms SAR Gen 2

preference *number*

Synopsis Route preference for routes learned from all peers

Context **configure** service vprn *service-name* bgp group *named-item-64* preference *number*

Tree preference

Range 1 to 255

Introduced 25.3.R2

Platforms SAR Gen 2

prefix-limit [family] *keyword*

Synopsis Enter the **prefix-limit** list instance

Context **configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword*

Tree prefix-limit

Description Commands in this context limit the number of BGP routes per address family received from a BGP peer and define the actions when crossing the configured maximum.

Introduced 25.3.R2

Platforms SAR Gen 2

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[**family**] *keyword*

Synopsis	Address family to which the limit applies
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword*
Tree	prefix-limit
Options	ipv4, ipv6, mcast-ipv4, flow-ipv4, flow-ipv6, mcast-ipv6, label-ipv4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-excess *number*

Synopsis	Percentage of maximum routes to install in route table
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword* hold-excess *number*
Tree	hold-excess
Description	This command specifies the percentage of maximum routes that are allowed to be installed in the route table for the configured address family. If a peer within scope of the configuration exceeds the limit, the overflow routes are held in the BGP RIB as inactive routes and are ineligible for forwarding and advertisement to other peers. If the **post-import** command is configured to **true**, only routes not rejected by import policies count toward the limit. A BGP route in an overflow state is reconsidered for activation and reinstallation when an UPDATE message is received for the route. This command is mutually exclusive with the **idle-timeou**t and **log-only** commands.
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *number*

Synopsis	Time BGP peering remains idle before reconnecting
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword* idle-timeout *number*
Tree	idle-timeout
Description	This command configures the time in minutes before a BGP peer is automatically re-established after reaching the prefix limit.

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When unconfigured, the BGP peer stays down until the operator performs a reset. This command and **log-only** cannot be configured simultaneously.

Range	1 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Send warning message at threshold instead of take-down
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword* log-only *boolean*
Tree	log-only
Description	When configured to **true**, the router disables the BGP session from being taken down upon reaching the prefix limit. Instead, only a warning message is sent when the limit is reached. A warning message is also sent when the configured threshold percentage of the limit is reached. This command and **idle-timeout** cannot be configured simultaneously. When configured to **false**, the router generates a log event and takes the BGP session down upon reaching the prefix limit.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum *number*

Synopsis	Maximum number of routes to be learned from a peer
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword* maximum *number*
Tree	maximum
Description	This command configures the maximum number of BGP routes of the specified address family that can be received from a peer before administrative action is taken. When **log-only** is unconfigured, the BGP session is taken down whenever the limit of any family is exceeded even if the limits of the other family has not been exceeded.
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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post-import *boolean*

Synopsis	Apply limit only to routes accepted by import policies
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword* post-import *boolean*
Tree	post-import
Description	When configured to **true**, the system limits the number of routes that are accepted by import policies. Routes rejected by import policies are not counted against the configured limit. When configured to **false**, the system limits the number of routes to all routes received from the peer.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Percentage threshold that triggers a warning message
Context	**configure** service vprn *service-name* bgp group *named-item-64* prefix-limit *keyword* threshold *number*
Tree	threshold
Range	1 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

remove-private

Synopsis	Enable the **remove-private** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* remove-private
Tree	remove-private
Introduced	25.3.R2
Platforms	SAR Gen 2

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limited *boolean*

Synopsis	Remove private ASNs up to first public ASN encountered
Context	**configure** service vprn *service-name* bgp group *named-item-64* remove-private limited *boolean*
Tree	limited
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *boolean*

Synopsis	Replace private ASN with global ASN before advertising
Context	**configure** service vprn *service-name* bgp group *named-item-64* remove-private replace *boolean*
Tree	replace
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

skip-peer-as *boolean*

Synopsis	Keep private ASN if it is the same as the BGP peer ASN
Context	**configure** service vprn *service-name* bgp group *named-item-64* remove-private skip-peer-as *boolean*
Tree	skip-peer-as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-communities

Synopsis	Enter the **send-communities** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-communities
Tree	send-communities
Introduced	25.3.R2

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Platforms	SAR Gen 2

extended *boolean*

Synopsis	Advertise the Extended Communities attribute to peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-communities extended *boolean*
Tree	extended
Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP extended communities are sent to peers in the Extended Communities attribute. When configured to **false**, all extended communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

large *boolean*

Synopsis	Advertise the Large Communities attribute to peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-communities large *boolean*
Tree	large
Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP large communities are sent to peers in the Large Communities attribute. When configured to **false**, all large communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Advertise the Communities attribute to peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-communities standard *boolean*
Tree	standard

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Description	When unconfigured, this command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP standard communities are sent to peers in the Communities attribute. When configured to **false**, all standard communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

send-default

Synopsis	Enable the **send-default** context
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-default
Tree	send-default
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policy name
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-default export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Generate and advertise an IPv4 default route (0/0)
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-default ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *boolean*

Synopsis	Generate and advertise an IPv6 default route (::/0)
Context	**configure** service vprn *service-name* bgp group *named-item-64* send-default ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Prevent routes being reflected back to best-route peer
Context	**configure** service vprn *service-name* bgp group *named-item-64* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split-horizon. This command prevents routes from being reflected back to a peer that sends the best route. It applies to routes of all address families and to any type of sending peer; confed-EBGP, EBGP and IBGP. Enabling the split-horizon functionality may have a detrimental impact on peer and route scaling and should only be used when absolutely necessary. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the use of split-horizon is disabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

static-group *boolean*

Synopsis	Use group for static peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* static-group *boolean*
Tree	static-group
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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tcp-mss *(number | keyword)*

Synopsis	TCP maximum segment size override
Context	**configure** service vprn *service-name* bgp group *named-item-64* tcp-mss *(number | keyword)*
Tree	tcp-mss
Description	This command configures an override for the TCP maximum segment size to use with a specific peer or set of peers (depending on the scope of the command). The configured value controls two properties of the TCP connection as follows: TCP MSS option - The router advertises the TCP MSS option value in the TCP SYN packet it sends as part of the 3-way handshake. The advertised value may be lower than the configured value, depending on the IP MTU of the first hop IP interface. The peers must abide by this value when sending TCP segments to the local router. TCP maximum segment size - The actual transmitted size may be lower than the configured value, depending on the TCP MSS option value signaled by the peers, the effect of path MTU discovery, or other factors.
Range	384 to 9746
Options	ip-stack
Introduced	25.3.R2
Platforms	SAR Gen 2

third-party-nexthop *boolean*

Synopsis	Apply third-party next-hop processing to EBGP peers
Context	**configure** service vprn *service-name* bgp group *named-item-64* third-party-nexthop *boolean*
Tree	third-party-nexthop
Description	When configured to **true**, this command enables the router to send third-party next hop to EBGP peers in the same subnet as the source peer. The address family of the transport must match the address family of the route. When an IPv4 or IPv6 route is received from one EBGP peer and advertised to another EBGP peer in the same IP subnet, the BGP next hop is left unchanged. When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, third-party next-hop processing is disabled and the next hop carries the IP address of the interface used to establish the TCP connection to the peer.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ttl-security *number*

Synopsis	Minimum TTL value for an incoming BGP packet
Context	**configure** service vprn *service-name* bgp group *named-item-64* ttl-security *number*
Tree	ttl-security
Description	This command configures the minimum TTL value that BGP accepst from an incoming packet. A packet with a TTL value less than the minimum configured TTL value is discarded.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	BGP peer type
Context	**configure** service vprn *service-name* bgp group *named-item-64* type *keyword*
Tree	type
Options	internal, external
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service vprn *service-name* bgp hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-hold-time *number*

Synopsis	Minimum hold time between successive messages
Context	**configure** service vprn *service-name* bgp hold-time minimum-hold-time *number*
Tree	minimum-hold-time
Description	This command specifies the minimum hold time that is accepted for the session. If a peer proposes a hold time lower than this value, the session attempt is rejected.

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Range	0 | 3 to 65535
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Maximum time BGP waits between successive messages
Context	**configure** service vprn *service-name* bgp hold-time seconds *number*
Tree	seconds
Description	This command configures the maximum time BGP waits between successive messages (either keepalive or update) from its peer before closing the connection. Although the implementation allows setting the keepalive timer at the BGP global level times separately, the configured keepalive timer is overridden by this value under the following circumstances. • If the specified hold time is less than the configured keepalive time, the operational keepalive time is set to a third of the hold-time; the configured keepalive time is not changed. • If the hold time is set to zero, the operational value of the keepalive time is set to zero; the configured keepalive time is not changed. The connection with the peer is up permanently and no keepalive packets are sent to the peer.
Range	0 | 3 to 65535
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp-multipath *boolean*

Synopsis	Enable IBGP multipath load balancing
Context	**configure** service vprn *service-name* bgp ibgp-multipath *boolean*
Tree	ibgp-multipath
Description	When configured to **true**, this command enables IBGP multipath load balancing when adding BGP routes to the route table if the route resolving the BGP next hop offers multiple next hops. When configured to **false**, this command disables IBGP multipath load balancing.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

import

Synopsis	Enable the **import** context
Context	**configure** service vprn *service-name* bgp import
Tree	import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Import policy name
Context	**configure** service vprn *service-name* bgp import policy *(policy-expr-string | string)*
Tree	policy
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-send-delay-zero *boolean*

Synopsis	Send BGP updates as soon as session comes up
Context	**configure** service vprn *service-name* bgp initial-send-delay-zero *boolean*
Tree	initial-send-delay-zero
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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keepalive *number*

Synopsis	Time after which the BGP KEEPALIVE message is sent
Context	**configure** service vprn *service-name* bgp keepalive *number*
Tree	keepalive
Range	0 to 21845
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

label-preference *number*

Synopsis	Route preference for routes from labeled-unicast peers
Context	**configure** service vprn *service-name* bgp label-preference *number*
Tree	label-preference
Range	1 to 255
Default	170
Introduced	25.3.R2
Platforms	SAR Gen 2

local-as

Synopsis	Enter the **local-as** context
Context	**configure** service vprn *service-name* bgp local-as
Tree	local-as
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Local (or virtual) BGP AS number
Context	**configure** service vprn *service-name* bgp local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2

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Platforms	SAR Gen 2

prepend-global-as *boolean*

Synopsis	Prepend global AS when advertising routes to BGP peer
Context	**configure** service vprn *service-name* bgp local-as prepend-global-as *boolean*
Tree	prepend-global-as
Description	When configured to **true**, the global ASN is added to the AS_PATH attribute in outbound routes sent to the peer. When configured to **false**, the global ASN is hidden in paths announced to the EBGP peer.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

private *boolean*

Synopsis	Hide the local ASN in sent paths learned from peering
Context	**configure** service vprn *service-name* bgp local-as private *boolean*
Tree	private
Description	When configured to **true**, the local ASN is hidden in paths learned from the peering. When configured to **false**, the local ASN is advertised to all peers, including those that can use the global ASN for establishing BGP peering sessions.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Default local preference if not in incoming routes
Context	**configure** service vprn *service-name* bgp local-preference *number*
Tree	local-preference
Max. range	0 to 4294967295
Default	100
Introduced	25.3.R2

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Platforms	SAR Gen 2

loop-detect *keyword*

Synopsis	Strategy for loop detection in the AS path
Context	**configure** service vprn *service-name* bgp loop-detect *keyword*
Tree	loop-detect
Options	drop-peer, ignore-loop, off, discard-route
Default	ignore-loop
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect-threshold *number*

Synopsis	Threshold for the global ASN in a received AS path
Context	**configure** service vprn *service-name* bgp loop-detect-threshold *number*
Tree	loop-detect-threshold
Range	0 to 15
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

med-out *(number | keyword)*

Synopsis	Default MED attribute value to advertise to peers
Context	**configure** service vprn *service-name* bgp med-out *(number | keyword)*
Tree	med-out
Max. range	0 to 4294967295
Options	igp-cost
Introduced	25.3.R2
Platforms	SAR Gen 2

min-route-advertisement *number*

Synopsis	Minimum time before a prefix can be advertised to peer

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Context	**configure** service vprn *service-name* bgp min-route-advertisement *number*
Tree	min-route-advertisement
Range	1 to 255
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

multihop *number*

Synopsis	TTL in IP packet headers for EBGP peers multi-hops away
Context	**configure** service vprn *service-name* bgp multihop *number*
Tree	multihop
Description	This command configures the Time to Live (TTL) value entered in the IP header of packets sent to an EBGP peer multiple hops away. This command applies only to EBGP.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multipath

Synopsis	Enter the **multipath** context
Context	**configure** service vprn *service-name* bgp multipath
Tree	multipath
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Maximum multipaths per prefix for EBGP learned routes
Context	**configure** service vprn *service-name* bgp multipath ebgp *number*
Tree	ebgp
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

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family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** service vprn *service-name* bgp multipath family *keyword*
Tree	family
Description	Commands in this context set ECMP multipath parameters that apply only to the specified label unicast address family. When multipath is enabled, traffic to the destination is load-shared across a set of paths (BGP routes) that the BGP decision process considers equal to the best path. The distribution of traffic over the multiple paths may or may not be equal. The distribution is based on weights derived from the Link Bandwidth Extended Community. For more information about the criteria a non-best route must meet to qualify as a multipath, see “BGP route installation in the route table” in the *7705 SAR Gen 2 Unicast Routing Protocols User Guide*.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for the multipath selection
Context	**configure** service vprn *service-name* bgp multipath family *keyword*
Tree	family
Options	ipv4, ipv6, label-ipv4, label-ipv6
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Maximum multipaths when best path is EBGP learned route
Context	**configure** service vprn *service-name* bgp multipath family *keyword* ebgp *number*
Tree	ebgp
Description	This command configures the maximum number of multipaths per prefix or NLRI when the best path is an EBGP learned route. The limit configured using this command overrides the limit configured in the **max-paths** command. If the best path is an EBGP learned route, and this command is set to 1, multipaths are disabled.
Range	1 to 64

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Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Maximum multipaths when best path is IBGP learned route
Context	**configure** service vprn *service-name* bgp multipath family *keyword* ibgp *number*
Tree	ibgp
Description	This command configures the maximum number of multipaths per prefix or NLRI when the best path is an IBGP learned route. The limit configured using this command overrides the limit configured in the **max-paths** command. If the best path is an IBGP learned route and this command is set to 1, multipaths are disabled.
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

max-paths *number*

Synopsis	Maximum number of multipaths per prefix or NLRI
Context	**configure** service vprn *service-name* bgp multipath family *keyword* max-paths *number*
Tree	max-paths
Description	This command configures the maximum number of multipaths per prefix or NLRI for the IP family option specified using the **family** command. Consider the following when configuring this command: • If the best path is an EBGP-learned route and the **ebgp** command is configured, the limit configured in the **ebgp** command overrides the limit configured in this command. • If the best path is an IBGP-learned route and the **ibgp** command is configured, the limit configured in the **ibgp** command overrides the limit configured in this command. • If the best path is an EBGP-learned route and the **ebgp** command is not configured, and this command is configured to 1, multipaths are disabled. • If the best path is an IBGP-learned route and the **ibgp** command is not configured, and this command is configured to 1, multipaths are disabled.
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

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restrict *keyword*

Synopsis	AS path restriction for the non-best path
Context	**configure** service vprn *service-name* bgp multipath family *keyword* restrict *keyword*
Tree	restrict
Options	same-as-path-length, same-neighbor-as, exact-as-path
Default	same-as-path-length
Introduced	25.3.R2
Platforms	SAR Gen 2

unequal-cost *boolean*

Synopsis	Ignore differences in the next-hop cost for multipath
Context	**configure** service vprn *service-name* bgp multipath family *keyword* unequal-cost *boolean*
Tree	unequal-cost
Description	When configured to **true**, BGP ignores differences in the next-hop cost when determining eligible multipaths.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Maximum multipaths per prefix for IBGP learned routes
Context	**configure** service vprn *service-name* bgp multipath ibgp *number*
Tree	ibgp
Range	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

max-paths *number*

Synopsis	Maximum multipaths per prefix
Context	**configure** service vprn *service-name* bgp multipath max-paths *number*

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Tree	max-paths
Range	1 to 64
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

restrict *keyword*

Synopsis	AS path restriction for the non-best path
Context	**configure** service vprn *service-name* bgp multipath restrict *keyword*
Tree	restrict
Options	same-as-path-length, same-neighbor-as, exact-as-path
Default	same-as-path-length
Introduced	25.3.R2
Platforms	SAR Gen 2

unequal-cost *boolean*

Synopsis	Ignore differences in the next-hop cost for multipath
Context	**configure** service vprn *service-name* bgp multipath unequal-cost *boolean*
Tree	unequal-cost
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Enter the **neighbor** list instance
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-address**] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	IP address of the BGP peer router
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	neighbor
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the BGP neighbor
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-inactive *boolean*

Synopsis	Advertise an inactive BGP route to peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-inactive *boolean*
Tree	advertise-inactive
Description	When configured to **true**, this command allows an inactive BGP route to be advertised, even though it is not the most preferred route. The effect of the command on advertised unlabeled, labeled, and multicast IPv4 and IPv6 routes depends on several factors. • If the active route for the IP prefix is a BGP route, that route is advertised. • If the active route is a non-BGP route and there are valid inactive BGP routes to the same destination, the best valid inactive route is advertised unless the active non-BGP route is matched and accepted by an export policy applied to the session.

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- If the active route is a non-BGP route and there are no valid BGP routes to the same destination, no route is advertised unless the active non-BGP route is matched and accepted by an export policy applied to the session.

When unconfigured, the command inherits the value of the global-level setting (**true** or **false**). The command cannot be explicitly configured to **false**.

When this command inherits a value of **false**, the advertisement of inactive BGP routes to other BGP peers is disabled.

Introduced 25.3.R2

Platforms SAR Gen 2

advertise-ipv6-next-hops

Synopsis Enable the **advertise-ipv6-next-hops** context

Context **configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops

Tree advertise-ipv6-next-hops

Introduced 25.3.R2

Platforms SAR Gen 2

ipv4 *boolean*

Synopsis Enable IPv4 routes to be advertised

Context **configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* advertise-ipv6-next-hops ipv4 *boolean*

Tree ipv4

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

aggregator-id-zero *boolean*

Synopsis Set router ID in the BGP AGGREGATOR attribute to zero

Context **configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* aggregator-id-zero *boolean*

Tree aggregator-id-zero

Introduced 25.3.R2

Platforms SAR Gen 2

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as-override *boolean*

Synopsis	Replace the peer ASN with the local ASN in AS Path
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* as-override *boolean*
Tree	as-override
Description	When configured to **true**, the advertising router's local AS replaces all occurrences of the peer AS in the AS_PATH attribute. This command should be used with caution, as it breaks BGP's loop detection mechanism. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). This command cannot be explicitly configured to **false**. When the command inherits a value of **false**, no AS override is performed.
Introduced	25.3.R2
Platforms	SAR Gen 2

asn-4-byte *boolean*

Synopsis	Advertise the use of 4-byte ASNs
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* asn-4-byte *boolean*
Tree	asn-4-byte
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	BGP authentication key
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the BGP authentication key peers in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2

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Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* authentication-keychain *reference*
Tree	authentication-keychain
Description	This command associates the keychain to be used to authenticate the BGP session. The keychain allows the rollover of authentication keys during the lifetime of a session.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, BFD is enabled on a given protocol interface where the state of the protocol interface is tied to the state of the BFD session between the local node and the remote node. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, BFD is removed from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-strict-mode

Synopsis	Enter the **bfd-strict-mode** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode
Tree	bfd-strict-mode
Introduced	25.3.R2

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Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode advertise
Tree	advertise
Description	Commands in this context configure BGP to advertise the Strict-BFD capability to peers that are within scope of this command and meet the following requirements: • The inherited or configured value for the **bfd-liveness** command that applies to the peer is **true**. • The interface associated with the peer has a valid BFD configuration. When the preceding conditions are satisfied and two peers attempting to form a session both advertise the Strict-BFD capability, the BGP finite state machine in each router transitions the session state to established after the BFD session with the peer enters the up state. When unconfigured, BGP does not advertise the Strict-BFD capability to peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

holdtime *number*

Synopsis	Maximum time BGP waits for the BFD session to come up
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode advertise holdtime *number*
Tree	holdtime
Description	This command configures the maximum time BGP waits for the BFD session to come up, provided that the Strict-BFD procedures apply to a session, and the negotiated BGP hold time is zero (no keepalives). If the negotiated BGP hold time is greater than zero, the advertised hold time is not considered.
Range	1 to 65535
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

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next-hop-reachability *boolean*

Synopsis Consider next hop unreachable if BFD session is down

Context **configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-strict-mode next-hop-reachability *boolean*

Tree next-hop-reachability

Description When configured to **true**, the router considers next-hop self routes belonging to specific address families received from a peer within scope of this command as having an unresolved next hop, provided that the following requirements are met:

- The BFD session to the peer is in a down state.
- There is a valid interface BFD configuration that applies to the peer.
- There is a valid BFD liveness configuration that applies to the peer.

The unresolved state is maintained until the BFD session state changes to up or administratively down, even if there is a resolving route or tunnel that matches the BGP next-hop address.

Routes received from one peer with a BGP next-hop address equal to the address of another peer are not affected by the BFD session to the other peer.The behavior of the router when this command is **true** does not depend on whether Strict-BFD is used, as both features are independent.

Configuring this command to **true** only affects routes belonging to the following address families:

- IPv4
- IPv6
- IPv4 VPN
- IPv6 VPN
- labeled unicast IPv4
- labeled unicast IPv6
- EVPN
- IPv4 multicast
- IPv6 multicast
- IPv4 VPN multicast
- IPv6 VPN multicast

When configured to **false**, the router does not consider next-hop self routes belonging to the preceding address families as having an unresolved next hop if the BFD session goes down.

Introduced 25.3.R2

Platforms SAR Gen 2

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capability-negotiation *boolean*

Synopsis	Enable capability negotiation
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* capability-negotiation *boolean*
Tree	capability-negotiation
Introduced	25.3.R2
Platforms	SAR Gen 2

client-reflect *boolean*

Synopsis	Allow cluster RR to advertise routes to its clients
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* client-reflect *boolean*
Tree	client-reflect
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster

Synopsis	Enter the **cluster** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* cluster
Tree	cluster
Introduced	25.3.R2
Platforms	SAR Gen 2

cluster-id *ipv4-address*

Synopsis	Route reflector cluster ID
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* cluster cluster-id *ipv4-address*
Tree	cluster-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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connect-retry *number*

Synopsis	BGP connect retry timer value
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* connect-retry *number*
Tree	connect-retry
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

damp-peer-oscillations

Synopsis	Enable the **damp-peer-oscillations** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations
Tree	damp-peer-oscillations
Introduced	25.3.R2
Platforms	SAR Gen 2

error-interval *number*

Synopsis	Time after a reset that the session must be error-free
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations error-interval *number*
Tree	error-interval
Description	This command sets the interval of time after a reset, during which the session must be error-free in order to reset the penalty counter and return the idle hold time to the initial wait time.
Range	0 to 2048
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-hold-time

Synopsis	Enter the **idle-hold-time** context

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time
Tree	idle-hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-wait *number*

Synopsis	Time session remains in idle state after stabilization
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time initial-wait *number*
Tree	initial-wait
Range	0 to 2048
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

max-wait *number*

Synopsis	Maximum session idle time after repeated instability
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time max-wait *number*
Tree	max-wait
Range	1 to 2048
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

second-wait *number*

Synopsis	Time that doubles after each repeated session failure
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damp-peer-oscillations idle-hold-time second-wait *number*
Tree	second-wait
Description	This command defines the hold time that doubles after each repeated session failure that occurs in a short span of time.

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Range	1 to 2048
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

damping *boolean*

Synopsis	Use BGP route damping to reduce route flap
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* damping *boolean*
Tree	damping
Introduced	25.3.R2
Platforms	SAR Gen 2

default-label-preference

Synopsis	Enter the **default-label-preference** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-label-preference
Tree	default-label-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-label-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-label-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

default-preference

Synopsis	Enter the **default-preference** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-preference
Tree	default-preference
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp *number*

Synopsis	Default preference for EBGP
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-preference ebgp *number*
Tree	ebgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ibgp *number*

Synopsis	Default preference for IBGP
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* default-preference ibgp *number*
Tree	ibgp
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ebgp-default-reject-policy

Synopsis	Enable the **ebgp-default-reject-policy** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ebgp-default-reject-policy
Tree	ebgp-default-reject-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Enable default reject export policy for external peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ebgp-default-reject-policy export *boolean*
Tree	export
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

import *boolean*

Synopsis	Enable default reject import policy for external peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ebgp-default-reject-policy import *boolean*
Tree	import

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-first-as *boolean*

Synopsis	Enforce the configured peer AS value in received routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* enforce-first-as *boolean*
Tree	enforce-first-as
Description	When configured to **true** for an EBGP session, all routes received from an EBGP peer are checked to ensure that the most recent ASN in the AS_PATH attribute of each route matches the configured AS of the session. If there is not a match, the session is reset (if the **update-fault-tolerance** command in the **error-handling** context is set to **false**) or the session is left up but the route is treated as withdrawn (if **update-fault-tolerance** is set to **true**). This command does not flap an established session because it applies only to routes received after the command is issued. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, received routes are not checked for compliance with the rule.
Introduced	25.3.R2
Platforms	SAR Gen 2

error-handling

Synopsis	Enter the **error-handling** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling
Tree	error-handling
Introduced	25.3.R2
Platforms	SAR Gen 2

update-fault-tolerance *boolean*

Synopsis	Tolerate non-critical errors in UPDATE messages
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* error-handling update-fault-tolerance *boolean*

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Tree	update-fault-tolerance
Description	When configured to **true**, non-critical errors are handled with treat-as-withdraw, attribute-discard, and other non-disruptive approaches that do not cause a session reset. Critical errors still trigger a session reset. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, all errors trigger a session reset.
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-link-bandwidth

Synopsis	Enter the **evpn-link-bandwidth** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* evpn-link-bandwidth
Tree	evpn-link-bandwidth
Introduced	25.3.R2
Platforms	SAR Gen 2

add-to-received-bgp *number*

Synopsis	Weight added to received PE-CE BGP routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* evpn-link-bandwidth add-to-received-bgp *number*
Tree	add-to-received-bgp
Description	This command configures the weight value added to all BGP PE-CE routes for the purpose of weighted ECMP if EVPN-IFL and BGP PE-CE routes are combined into the same ECMP set. For the load-balancing betweeen EVPN-IFL and BGP PE-CE routes the **configure service vprn bgp eibgp-loadbalance** command must already be configured in the system.
Range	1 to 128
Introduced	25.3.R2
Platforms	SAR Gen 2

export

Synopsis	Enable the **export** context

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* export
Tree	export
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Export policy name
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* export policy *(policy-expr-string | string)*
Tree	policy
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

extended-nh-encoding

Synopsis	Enable the **extended-nh-encoding** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* extended-nh-encoding
Tree	extended-nh-encoding
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable IPv4 family type
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* extended-nh-encoding ipv4 *boolean*

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Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

family

Synopsis	Enable the **family** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

flow-ipv6 *boolean*

Synopsis	Advertise support for the FlowSpec-IPv6 address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family flow-ipv6 *boolean*
Tree	flow-ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Add support for the IPv4 address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *boolean*

Synopsis	Advertise MP-BGP support for the IPv6 address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Advertise support for the label-IPv4 address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv4 *boolean*

Synopsis	Advertise support for the MCAST-IPv4 address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mcast-ipv4 *boolean*
Tree	mcast-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mcast-ipv6 *boolean*

Synopsis	Advertise support for the MCAST-IPv6 address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* family mcast-ipv6 *boolean*
Tree	mcast-ipv6

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

fast-external-failover *boolean*

Synopsis	Drop external BGP session immediately when link fails
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* fast-external-failover *boolean*
Tree	fast-external-failover
Description	When this command inherits a value of **true**, the router drops an external BGP session on a single-hop route immediately when the local interface goes down. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When configured to **false**, the BGP session remains up until the hold time expires.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart
Tree	graceful-restart
Introduced	25.3.R2
Platforms	SAR Gen 2

gr-notification *boolean*

Synopsis	Perform graceful restart procedures after NOTIFICATION
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart gr-notification *boolean*
Tree	gr-notification
Description	When configured to **true**, the Graceful Restart capability sent by the router indicates support for NOTIFICATION messages. If the peer also supports this capability, the session is restarted gracefully (while preserving forwarding) if either peer sends a NOTIFICATION message due to some type of event or error.

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When configured to **false**, NOTIFICATION messages are not supported.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

long-lived

Synopsis	Enable the **long-lived** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived
Tree	long-lived
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-stale-to-all-neighbors *boolean*

Synopsis	Advertise stale routes to all BGP peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived advertise-stale-to-all-neighbors *boolean*
Tree	advertise-stale-to-all-neighbors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	Advertised long-lived stale time for LLGR routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived advertised-stale-time *number*
Tree	advertised-stale-time
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

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family [family-type] *keyword*

Synopsis	Enter the **family** list instance
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword*
Tree	family
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family-type**] *keyword*

Synopsis	Address family type for LLGR
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword*
Tree	family
Options	ipv4, ipv6, flow-ipv4, flow-ipv6, label-ipv4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertised-stale-time *number*

Synopsis	LLGR stale routes time for family override
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword* advertised-stale-time *number*
Tree	advertised-stale-time
Description	This command configures the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability with a family-specific override.
Range	0 to 16777215
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

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helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived family *keyword* helper-override-stale-time *number*
Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This is a family-specific override value.
Range	0 to 16777216
Default	16777216
Introduced	25.3.R2
Platforms	SAR Gen 2

forwarding-bits-set *keyword*

Synopsis	BGP LLGR forwarding-bit behavior for address family
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived forwarding-bits-set *keyword*
Tree	forwarding-bits-set
Description	This command determines the setting of the F bit in the GR and LLGR capabilities advertised by the router. When the F bit is set for an address family, it indicates that the advertising router is able to preserve forwarding state for the routes of that address family across the last restart. When the session is re-established after a restart and the F bit is not set, all stale routes from the peer are immediately removed for the corresponding address family. This command allows the F bit to be set for all address families or only for non-forwarding address families (L2-VPN, route target, flow-IPv4, and flow-IPv6).
Options	none, all, non-fwd
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-restart-time *number*

Synopsis	Locally-configured override for restart time

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived helper-override-restart-time *number*
Tree	helper-override-restart-time
Description	This command overrides the restart time advertised by a peer (in its GR capability) with a locally-configured value. This override applies only to AFI/SAFI that were included in the GR capability of the peer. The restart-time is always zero for AFI/SAFI not included in the GR capability. This command is useful if the local router wants to force the LLGR phase to begin after a set time for all protected AFI/SAFI.
Range	0 to 4095
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-override-stale-time *number*

Synopsis	Locally-configured stale routes override time
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived helper-override-stale-time *number*
Tree	helper-override-stale-time
Description	This command configures a locally-imposed LLGR stale time that overrides the long-lived stale routes time that is advertised by the router in its LLGR capability. This command applies to all AFI/SAFI in the advertised LLGR capability except for any AFI/SAFI with a family-specific override.
Range	0 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

without-no-export *boolean*

Synopsis	Advertise LLGR stale routes to non-LLGR peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart long-lived without-no-export *boolean*
Tree	without-no-export
Description	When configured to **true**, LLGR stale routes can be advertised to any peer (EBGP or IBGP) that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale routes is automatically set to 0. When configured to **false**, LLGR stale routes are not advertised to any EBGP peer that did not signal the LLGR capability. For IBGP and confederation-EBGP peers that did not advertise the LLGR capability, the local preference attribute in the advertised stale

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routes is automatically set to 0 and a NO_EXPORT standard community is automatically added to the routes.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

restart-time *number*

Synopsis	Restart time advertised by GR capability
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart restart-time *number*
Tree	restart-time
Range	0 to 4095
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-routes-time *number*

Synopsis	Maximum time to maintain routes after graceful restart
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* graceful-restart stale-routes-time *number*
Tree	stale-routes-time
Range	1 to 3600
Default	360
Introduced	25.3.R2
Platforms	SAR Gen 2

group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Neighbor to group
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* group *reference*

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Tree	group
Reference	**configure** service vprn *service-name* bgp group *named-item-64*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-hold-time *number*

Synopsis	Minimum time BGP waits between successive messages
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time minimum-hold-time *number*
Tree	minimum-hold-time
Range	0 | 3 to 65536
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Maximum hold time between successive messages
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-time seconds *number*
Tree	seconds
Description	The BGP hold time specifies the maximum time BGP waits between successive messages (either keepalive or update) from its peer, before closing the connection. Even though the implementation allows setting the keepalive timer at the BGP neighbor level times separately, the configured keepalive timer is overridden by this value under the following circumstances:

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- If the specified hold time is less than the configured keepalive time, then the operational keepalive time is set to a third of the hold-time; the configured keepalive time is not changed.
- If the hold time is set to zero, the operational value of the keepalive time is set to zero; the configured keepalive time is not changed. This means that the connection with the peer is up permanently and no keepalive packets are sent to the peer.

When unconfigured, the command setting is inherited from the BGP group-level configuration.

Range	0 | 3 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enable the **import** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* import
Tree	import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Route policy name
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* import policy *(policy-expr-string | string)*
Tree	policy
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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initial-send-delay-zero *boolean*

Synopsis	Send BGP updates as soon as the session comes up
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* initial-send-delay-zero *boolean*
Tree	initial-send-delay-zero
Description	When configured to **true**, BGP updates are sent as soon as the session comes up. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, BGP waits to send UPDATE messages for the minimum route advertisement time after a session is established.
Introduced	25.3.R2
Platforms	SAR Gen 2

keepalive *number*

Synopsis	Time after which the BGP KEEPALIVE message is sent
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* keepalive *number*
Tree	keepalive
Range	0 to 21845
Introduced	25.3.R2
Platforms	SAR Gen 2

label-preference *number*

Synopsis	Route preference for routes from labeled-unicast peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* label-preference *number*
Tree	label-preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

link-bandwidth

Synopsis	Enter the **link-bandwidth** context

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth
Tree	link-bandwidth
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-from-ebgp

Synopsis	Enable the **accept-from-ebgp** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp
Tree	accept-from-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth accept-from-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

add-to-received-ebgp

Synopsis	Enable the **add-to-received-ebgp** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp
Tree	add-to-received-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp ipv6 *boolean*
Tree	ipv6
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth add-to-received-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

aggregate-used-paths

Synopsis	Enable the **aggregate-used-paths** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths
Tree	aggregate-used-paths
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth aggregate-used-paths label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-to-ebgp

Synopsis	Enable the **send-to-ebgp** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp
Tree	send-to-ebgp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6 *boolean*

Synopsis	Support Link Bandwidth EC in IPv6 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Support Link Bandwidth EC in label-IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* link-bandwidth send-to-ebgp label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-address *(ipv4-address-no-zone \| ipv6-address-no-zone \| interface-name)*

Synopsis	Local IP address used when communicating with BGP peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-address *(ipv4-address-no-zone | ipv6-address-no-zone | interface-name)*
Tree	local-address
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

local-as

Synopsis	Enter the **local-as** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as

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Tree	local-as
Introduced	25.3.R2
Platforms	SAR Gen 2

as-number *number*

Synopsis	Local (or virtual) BGP AS number
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as as-number *number*
Tree	as-number
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

prepend-global-as *boolean*

Synopsis	Prepend global ASN when advertising routes to BGP peer
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as prepend-global-as *boolean*
Tree	prepend-global-as
Description	When configured to **true**, the global ASN is added to the AS_PATH attribute in outbound routes sent to the peer. When configured to **false**, the global ASN is not included in the AS_PATH attribute.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

private *boolean*

Synopsis	Hide the local ASN in sent paths learned from peering
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-as private *boolean*
Tree	private
Description	When configured to **true**, the local AS number is only advertised to peers that use the local ASN for establishing BGP peering sessions. When configured to **false**, the local ASN is advertised to all peers, including those that can use the global ASN for establishing BGP peering sessions.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

local-preference *number*

Synopsis	Default local preference if not in incoming routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* local-preference *number*
Tree	local-preference
Range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect *keyword*

Synopsis	Strategy for loop detection in the AS path
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* loop-detect *keyword*
Tree	loop-detect
Options	drop-peer, ignore-loop, off, discard-route
Introduced	25.3.R2
Platforms	SAR Gen 2

loop-detect-threshold *number*

Synopsis	Threshold for the global ASN in a received AS path
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* loop-detect-threshold *number*
Tree	loop-detect-threshold
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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med-out *(number | keyword)*

Synopsis	Default MED attribute value to advertise to peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* med-out *(number | keyword)*
Tree	med-out
Max. range	0 to 4294967295
Options	igp-cost
Introduced	25.3.R2
Platforms	SAR Gen 2

min-route-advertisement *number*

Synopsis	Minimum interval between successive prefix updates
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* min-route-advertisement *number*
Tree	min-route-advertisement
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multihop *number*

Synopsis	TTL in IP packet headers for EBGP peers multi-hops away
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* multihop *number*
Tree	multihop
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

multipath-eligible *boolean*

Synopsis	Allow routes from this peer in multipath eligibility
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* multipath-eligible *boolean*

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Tree	multipath-eligible
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-self *boolean*

Synopsis	Advertise routes with local address as next-hop address
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* next-hop-self *boolean*
Tree	next-hop-self
Description	When configured to **true**, this command configures BGP to advertise routes to members of a group using a local address of the BGP instance as the BGP next-hop address. Note that this command is set without exception, regardless of the route source (EBGP or IBGP) or its family. When used with VPN-IPv4 and VPN-IPv6 routes, the **configure router bgp rr-vpn-forwarding** command should also be configured. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, protocol standard behavior is applied to determine whether to set **next-hop-self** in advertised routes.
Introduced	25.3.R2
Platforms	SAR Gen 2

origin-validation

Synopsis	Enable the **origin-validation** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation
Tree	origin-validation
Description	Commands in this context configure the marking of every inbound IPv4, IPv6, and labeled IPv4 route from the BGP peer with one of the following origin validation states: • Valid (0) • Not-Found (1) • Invalid (2) The configurations apply to all types of VPRN BGP peers, but generally should be applied only to EBGP peers and groups that contain only EBGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *boolean*

Synopsis	Enable support for unlabeled unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable support for unlabeled unicast IPv6 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4 *boolean*

Synopsis	Enable support for labeled-unicast IPv4 routes
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* origin-validation label-ipv4 *boolean*
Tree	label-ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Use passive mode for BGP communication
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* passive *boolean*
Tree	passive

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Introduced	25.3.R2
Platforms	SAR Gen 2

path-mtu-discovery *boolean*

Synopsis	Enable path MTU discovery
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* path-mtu-discovery *boolean*
Tree	path-mtu-discovery
Description	When configured to **true**, Path MTU Discovery (PMTUD) is enabled for the associated TCP connections. When set to **true**, PMTUD is activated toward an IPv4 BGP neighbor and the Don't Fragment (DF) bit is set in the IP header of all IPv4 packets sent to the peer. If any device along the path toward the peer cannot forward the packet because the IP MTU of the interface is smaller than the IP packet size, this device drops the packet and sends an ICMP or ICMPv6 error message encoding the interface MTU. When the router receives the ICMP or ICMPv6 message, it lowers the TCP maximum segment size limit from the previous value so that the IP MTU constraint can be accommodated. When PMTUD is configured to **false** and there is no TCP MSS configuration that can be associated with a BGP neighbor (in either the BGP configuration or the first hop IP interface configuration), the router advertises a value of only 1024 bytes as the TCP MSS option value, limiting received TCP segments to that size.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-as *number*

Synopsis	Peer AS number
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-as *number*
Tree	peer-as
Description	This command configures the autonomous system number for the peer. The peer AS number must be configured for each configured peer. For EBGP peers, the peer AS number configured must be different from the autonomous system number configured for this router under the global level since the peer will be in a different autonomous system than this router. For IBGP peers, the peer AS number must be the same as the autonomous system number of this router configured under the global level.
Range	1 to 4294967295
Introduced	25.3.R2

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Platforms	SAR Gen 2

peer-creation-type *keyword*

Synopsis	Peer creation type
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-creation-type *keyword*
Tree	peer-creation-type
Options	static, dynamic, dynamic-if-remote, dynamic-if-local
Default	static
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-tracking *boolean*

Synopsis	Enable BGP peer tracking
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* peer-ip-tracking *boolean*
Tree	peer-ip-tracking
Description	When configured to **true**, this command enables BGP peer tracking. Peer tracking should be used with caution. Peer tracking can tear a session down even if the loss of connectivity turns out to be short-lived (for example, while the IGP protocol is re-converging). Next-hop tracking, which is always enabled, handles temporary connectivity issues more effectively. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, peer tracking is disabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference for routes learned from all peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* preference *number*
Tree	preference
Description	This command configures the route preference for routes learned from the configured peers.

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The lower the preference value, the higher the chance of the route being the active route. The router assigns BGP routes the highest default preference as compared to routes that are direct, static or learned via MPLS or OSPF.

When unconfigured, the command setting is inherited from the group-level configuration.

Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-limit [family] *keyword*

Synopsis	Enter the **prefix-limit** list instance
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword*
Tree	prefix-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

[**family**] *keyword*

Synopsis	Address family to which the limit applies
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword*
Tree	prefix-limit
Options	ipv4, ipv6, mcast-ipv4, flow-ipv4, flow-ipv6, mcast-ipv6, label-ipv4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-excess *number*

Synopsis	Percentage of maximum routes to install in route table
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* hold-excess *number*
Tree	hold-excess
Description	This command specifies the percentage of maximum routes that are allowed to be installed in the route table for the configured address family. If a peer within scope of the configuration exceeds the limit, the overflow routes are held in the BGP RIB as inactive routes and are ineligible for forwarding and advertisement to other peers. If the **post-**

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import command is configured to **true**, only routes not rejected by import policies count toward the limit.

A BGP route in an overflow state is reconsidered for activation and reinstallation when an UPDATE message is received for the route.

This command is mutually exclusive with the **idle-timeout** and **log-only** commands.

Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *number*

Synopsis	Time which BGP peering remains idle before reconnecting
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* idle-timeout *number*
Tree	idle-timeout
Description	This command defines the idle time after an administrative take-down before BGP re-establishes a session and reconnects to a peer. When unconfigured, the command inherits the value from the group-level configuration.
Range	1 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Send warning message at threshold instead of take-down
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum *number*

Synopsis	Maximum number of routes to be learned from a peer
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* maximum *number*

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Tree	maximum
Description	This command configures the maximum number of BGP routes than can be received from a peer before administrative action is taken.
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

post-import *boolean*

Synopsis	Apply limit only to routes accepted by import policies
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* post-import *boolean*
Tree	post-import
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Percentage threshold that triggers a warning message
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-limit *keyword* threshold *number*
Tree	threshold
Range	1 to 100
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

remove-private

Synopsis	Enable the **remove-private** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private
Tree	remove-private
Introduced	25.3.R2

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Platforms	SAR Gen 2

limited *boolean*

Synopsis	Remove private ASNs up to first public ASN encountered
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private limited *boolean*
Tree	limited
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *boolean*

Synopsis	Replace private ASN with global ASN before advertising
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private replace *boolean*
Tree	replace
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

skip-peer-as *boolean*

Synopsis	Keep private ASN if it is the same as the BGP peer ASN
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* remove-private skip-peer-as *boolean*
Tree	skip-peer-as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

send-communities

Synopsis	Enter the **send-communities** context

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities
Tree	send-communities
Introduced	25.3.R2
Platforms	SAR Gen 2

extended *boolean*

Synopsis	Advertise the Extended Communities attribute to peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities extended *boolean*
Tree	extended
Description	When unconfigured, this command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP extended communities are sent to peers in the Extended Communities attribute. When configured to **false**, all extended communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

large *boolean*

Synopsis	Advertise the Large Communities attribute to peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities large *boolean*
Tree	large
Description	When unconfigured, this command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP large communities are sent to peers in the Large Communities attribute. When configured to **false**, all large communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

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standard *boolean*

Synopsis	Advertise the Communities attribute to peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-communities standard *boolean*
Tree	standard
Description	When unconfigured, this command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **true**. When this command inherits a value of **true**, BGP standard communities are sent to peers in the Communities attribute. When configured to **false**, all standard communities are removed from all routes advertised to BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

send-default

Synopsis	Enable the **send-default** context
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default
Tree	send-default
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policy name
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable IPv4 family type

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Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable IPv6 family type
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* send-default ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Prevent routes being reflected back to best-route peer
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split-horizon. This command prevents routes from being reflected back to a peer that sends the best route. It applies to routes of all address families and to any type of sending peer; confed-EBGP, EBGP and IBGP. Enabling the split-horizon functionality may have a detrimental impact on peer and route scaling and should only be used when absolutely necessary. When unconfigured, the command inherits the value of the group-level setting (**true** or **false**). The command cannot be explicitly configured to **false**. When this command inherits a value of **false**, the use of split-horizon is disabled.
Introduced	25.3.R2
Platforms	SAR Gen 2

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tcp-mss *(number | keyword)*

Synopsis	TCP maximum segment size override
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* tcp-mss *(number | keyword)*
Tree	tcp-mss
Description	This command configures an override for the TCP maximum segment size to use with a specific peer or set of peers (depending on the scope of the command). The configured value controls two properties of the TCP connection as follows: TCP MSS option - The router advertises the TCP MSS option value in the TCP SYN packet it sends as part of the 3-way handshake. The advertised value may be lower than the configured value, depending on the IP MTU of the first hop IP interface. The peers must abide by this value when sending TCP segments to the local router. TCP maximum segment size - The actual transmitted size may be lower than the configured value, depending on the TCP MSS option value signaled by the peers, the effect of path MTU discovery, or other factors.
Range	384 to 9746
Options	ip-stack
Introduced	25.3.R2
Platforms	SAR Gen 2

third-party-nexthop *boolean*

Synopsis	Apply third-party next-hop processing to EBGP peers
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* third-party-nexthop *boolean*
Tree	third-party-nexthop
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-security *number*

Synopsis	Minimum TTL value for an incoming BGP packet
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* ttl-security *number*
Tree	ttl-security
Description	This command configures the minimum TTL value that BGP will accept from an incoming packet. A packet with a TTL value less than the minimum configured TTL value is discarded.

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When unconfigured, the command inherits the value of the group-level setting.

Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	BGP peer type
Context	**configure** service vprn *service-name* bgp neighbor *(ipv4-address-with-zone | ipv6-address-with-zone)* type *keyword*
Tree	type
Options	internal, external
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop-resolution

Synopsis	Enter the **next-hop-resolution** context
Context	**configure** service vprn *service-name* bgp next-hop-resolution
Tree	next-hop-resolution
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	Policy that filters routes for BGP next-hop resolution
Context	**configure** service vprn *service-name* bgp next-hop-resolution policy *reference*
Tree	policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

use-bgp-routes *boolean*

Synopsis	Use BGP routes to resolve BGP next hops

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Context	**configure** service vprn *service-name* bgp next-hop-resolution use-bgp-routes *boolean*
Tree	use-bgp-routes
Description	When configured to **true**, BGP routes resolve BGP next hops. When this command is enabled, any unlabeled IPv4 or IPv6 BGP route received from a VPRN BGP peer becomes resolvable by up to four other BGP routes in order to resolve the route to a VPRN IP interface. A VPRN BGP route is not resolvable by another VPRN BGP route or by a BGP-VPN route. This command also allows unlabeled IPv4 or IPv6 BGP routes leaked from the GRT with unresolved next hops (in the GRT) to be resolvable by BGP-VPN routes (of the VPRN). When configured to **false**, BGP next hops are not resolved.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-leaked-routes

Synopsis	Enter the **use-leaked-routes** context
Context	**configure** service vprn *service-name* bgp next-hop-resolution use-leaked-routes
Tree	use-leaked-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

static *boolean*

Synopsis	Use leaked static routes to resolve BGP next hop
Context	**configure** service vprn *service-name* bgp next-hop-resolution use-leaked-routes static *boolean*
Tree	static
Description	When configured to **true**, the router allows any non-leaked unlabeled unicast IPv4 or IPv6 route in the BGP RIB to be resolved by a leaked static route with direct next hops. A BGP route resolved this way cannot resolve other routes (including BGP routes) and cannot be redistributed into non-BGP protocols, such as IGP. When configured to **false**, the router prevents the use of leaked static routes to resolve BGP routes.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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path-mtu-discovery *boolean*

Synopsis	Enable Path MTU Discovery
Context	**configure** service vprn *service-name* bgp path-mtu-discovery *boolean*
Tree	path-mtu-discovery
Description	When configured to **true**, Path MTU Discovery (PMTUD) is activated toward an IPv4 BGP neighbor. The Don't Fragment (DF) bit is set in the IP header of all IPv4 packets sent to the peer. If any device along the path toward the peer cannot forward the packet because the IP MTU of the interface is smaller than the IP packet size, the device drops the packet and sends an ICMP or ICMPv6 error message encoding the interface MTU. When the router receives the ICMP or ICMPv6 message, it lowers the TCP maximum segment size limit from the previous value to accomodate the IP MTU constraint. When configured to **false**, PMTUD is disabled and there is no TCP MSS configuration to associate with a BGP neighbor (in either the BGP configuration or the first-hop IP interface configuration). The router advertises a TCP MSS option of only 1024 bytes, limiting the received TCP segments to that size.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-ip-tracking *boolean*

Synopsis	Enable BGP peer tracking
Context	**configure** service vprn *service-name* bgp peer-ip-tracking *boolean*
Tree	peer-ip-tracking
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer-tracking-policy *reference*

Synopsis	Policy for BGP peer tracking on router instance
Context	**configure** service vprn *service-name* bgp peer-tracking-policy *reference*
Tree	peer-tracking-policy
Description	This command specifies the name of a policy statement to use with the BGP peer-tracking function on BGP sessions where peer tracking is enabled. When unconfigured, the default peer-tracking policy allows any type of route to match the neighbor IP address except aggregate routes and LDP shortcut routes.

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Peer tracking should be used with caution. The peer-tracking policy should only permit one of direct-interface or direct routes to be advertised to a BGP peer. Advertising both routes causes the best route to oscillate.

Reference **configure** policy-options policy-statement *named-item-64*

Introduced 25.3.R2

Platforms SAR Gen 2

preference *number*

Synopsis Route preference for routes learned from all peers

Context **configure** service vprn *service-name* bgp preference *number*

Tree preference

Description This command configures the route preference for routes learned from the configured peers.

The lower the preference value, the higher the chance of the route being the active route. The router assigns BGP routes the highest default preference as compared to routes that are direct, static or learned via MPLS or OSPF.

Range 1 to 255

Default 170

Introduced 25.3.R2

Platforms SAR Gen 2

rapid-update

Synopsis Enter the **rapid-update** context

Context **configure** service vprn *service-name* bgp rapid-update

Tree rapid-update

Description Commands in this context specify the address families that are configured to support the rapid update functionality.

The rapid update functionality overrides the remaining time on a peer's MRAI timer and immediately sends routes belonging to the specified address families (and all other pending updates) to the peers receiving these routes.

Introduced 25.10.R1

Platforms SAR Gen 2

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ipv4 *boolean*

Synopsis	Include IPv4 address family routes
Context	**configure** service vprn *service-name* bgp rapid-update ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Include IPv6 address family routes
Context	**configure** service vprn *service-name* bgp rapid-update ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

rapid-withdrawal *boolean*

Synopsis	Send BGP withdrawal UPDATE messages immediately
Context	**configure** service vprn *service-name* bgp rapid-withdrawal *boolean*
Tree	rapid-withdrawal
Description	When configured to **true**, UPDATE messages containing withdrawn NLRI are sent immediately to a peer without waiting for the MRAI timer to expire. UPDATE messages containing reachable NLRI continue to wait for the MRAI timer to expire, or for a rapid update trigger. When configured to **false**, withdrawal processing continues with the normal behavior.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

remove-private

Synopsis	Enable the **remove-private** context
Context	**configure** service vprn *service-name* bgp remove-private

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Tree	remove-private
Introduced	25.3.R2
Platforms	SAR Gen 2

limited *boolean*

Synopsis	Remove private ASNs up to first public ASN encountered
Context	**configure** service vprn *service-name* bgp remove-private limited *boolean*
Tree	limited
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

replace *boolean*

Synopsis	Replace private ASN with global ASN before advertising
Context	**configure** service vprn *service-name* bgp remove-private replace *boolean*
Tree	replace
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

skip-peer-as *boolean*

Synopsis	Keep private ASN if AS-PATH contains eBGP peer's ASN
Context	**configure** service vprn *service-name* bgp remove-private skip-peer-as *boolean*
Tree	skip-peer-as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-management

Synopsis	Enter the **rib-management** context
Context	**configure** service vprn *service-name* bgp rib-management

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Tree	rib-management
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* bgp rib-management ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-import

Synopsis	Enter the **leak-import** context
Context	**configure** service vprn *service-name* bgp rib-management ipv4 leak-import
Tree	leak-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Leak import policy name
Context	**configure** service vprn *service-name* bgp rib-management ipv4 leak-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies one or more leak import policies. Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** service vprn *service-name* bgp rib-management ipv4 route-table-import
Tree	route-table-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** service vprn *service-name* bgp rib-management ipv4 route-table-import policy-name *reference*
Tree	policy-name
Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used. Aggregate routes are always imported into each RIB, independent of the specified policy. Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes. When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vprn *service-name* bgp rib-management ipv6

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Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-import

Synopsis	Enter the **leak-import** context
Context	**configure** service vprn *service-name* bgp rib-management ipv6 leak-import
Tree	leak-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Leak import policy name
Context	**configure** service vprn *service-name* bgp rib-management ipv6 leak-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies one or more leak import policies. Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** service vprn *service-name* bgp rib-management ipv6 route-table-import
Tree	route-table-import

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Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** service vprn *service-name* bgp rib-management ipv6 route-table-import policy-name *reference*
Tree	policy-name
Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used. Aggregate routes are always imported into each RIB, independent of the specified policy. Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes. When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv4

Synopsis	Enter the **label-ipv4** context
Context	**configure** service vprn *service-name* bgp rib-management label-ipv4
Tree	label-ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-import

Synopsis	Enter the **leak-import** context
Context	**configure** service vprn *service-name* bgp rib-management label-ipv4 leak-import

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Tree	leak-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Leak import policy name
Context	**configure** service vprn *service-name* bgp rib-management label-ipv4 leak-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command specifies one or more leak import policies. Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-table-import

Synopsis	Enter the **route-table-import** context
Context	**configure** service vprn *service-name* bgp rib-management label-ipv4 route-table-import
Tree	route-table-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Name of policy that controls route importation into RIB
Context	**configure** service vprn *service-name* bgp rib-management label-ipv4 route-table-import policy-name *reference*
Tree	policy-name

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Description	This command specifies the name of a policy that controls the importation of active routes from the IP route table into one of the BGP RIBs. When this command is configured, routes dropped or rejected by the policy are not installed in the associated RIB. Rejected routes cannot be advertised to BGP peers associated with the RIB, but they can still be used to resolve BGP next hops of routes in that RIB. If the active route for a prefix is rejected by the policy, the best BGP route for that prefix in the BGP RIB can be advertised to peers as though it is used. Aggregate routes are always imported into each RIB, independent of the specified policy. Route modifications specified in the actions of the policy are ignored and have no effect on the imported routes. When unconfigured, or if the command refers to an empty policy, all non-BGP routes from the IP route table are imported into the applicable RIB.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

label-ipv6

Synopsis	Enter the **label-ipv6** context
Context	**configure** service vprn *service-name* bgp rib-management label-ipv6
Tree	label-ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

leak-import

Synopsis	Enter the **leak-import** context
Context	**configure** service vprn *service-name* bgp rib-management label-ipv6 leak-import
Tree	leak-import
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Leak import policy name
Context	**configure** service vprn *service-name* bgp rib-management label-ipv6 leak-import policy *(policy-expr-string | string)*

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Tree	policy
Description	This command specifies one or more leak import policies. Policy names are limited to 64 characters except for the first policy. Only one object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT).
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *ipv4-address*

Synopsis	Router ID for the BGP instance in the AS
Context	**configure** service vprn *service-name* bgp router-id *ipv4-address*
Tree	router-id
Description	This command specifies the router ID to be used with the BGP instance. Changing the BGP router ID on an active BGP instance causes the BGP instance to restart with the new router ID. When an SR OS is configured with an IPv6-only BOF and no IPv4 system interface address, explicitly-defined IPv4 router IDs are required for BGP as there is no mechanism to derive the router ID from an IPv6 system interface address.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

send-communities

Synopsis	Enter the **send-communities** context
Context	**configure** service vprn *service-name* bgp send-communities
Tree	send-communities
Introduced	25.3.R2
Platforms	SAR Gen 2

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extended *boolean*

Synopsis	Advertise the Extended Communities attribute to peers
Context	**configure** service vprn *service-name* bgp send-communities extended *boolean*
Tree	extended
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

large *boolean*

Synopsis	Advertise the Large Communities attribute to peers
Context	**configure** service vprn *service-name* bgp send-communities large *boolean*
Tree	large
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Advertise the Communities attribute to peers
Context	**configure** service vprn *service-name* bgp send-communities standard *boolean*
Tree	standard
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

send-default

Synopsis	Enter the **send-default** context
Context	**configure** service vprn *service-name* bgp send-default
Tree	send-default
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-policy *reference*

Synopsis	Export policy name
Context	**configure** service vprn *service-name* bgp send-default export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Enable IPv4 family type
Context	**configure** service vprn *service-name* bgp send-default ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Enable IPv6 family type
Context	**configure** service vprn *service-name* bgp send-default ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Prevent routes being reflected back to best-route peer
Context	**configure** service vprn *service-name* bgp split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split-horizon. This command prevents routes from being reflected back to a peer that sends the best route. It applies to routes of all address families and to any type of sending peer; confed-EBGP, EBGP and IBGP.

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Enabling the split-horizon functionality may have a detrimental impact on peer and route scaling and should only be used when absolutely necessary.

When configured to **false**, the use of split-horizon is disabled.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

tcp-mss *number*

Synopsis TCP maximum segment size override

Context **configure** service vprn *service-name* bgp tcp-mss *number*

Tree tcp-mss

Description This command configures an override for the TCP maximum segment size to use with a specific peer or set of peers (depending on the scope of the command).

The configured value controls two properties of the TCP connection as follows:

TCP MSS option - The router advertises the TCP MSS option value in the TCP SYN packet it sends as part of the 3-way handshake. The advertised value may be lower than the configured value, depending on the IP MTU of the first hop IP interface. The peers must abide by this value when sending TCP segments to the local router.

TCP maximum segment size - The actual transmitted size may be lower than the configured value, depending on the TCP MSS option value signaled by the peers, the effect of path MTU discovery, or other factors.

Range 384 to 9746

Introduced 25.3.R2

Platforms SAR Gen 2

third-party-nexthop *boolean*

Synopsis Apply third-party next-hop processing to EBGP peers

Context **configure** service vprn *service-name* bgp third-party-nexthop *boolean*

Tree third-party-nexthop

Description When configured to **true**, this command enables the router to send third-party next hop to EBGP peers in the same subnet as the source peer. The address family of the transport must match the address family of the route.

When an IPv4 or IPv6 route is received from one EBGP peer and advertised to another EBGP peer in the same IP subnet, the BGP next hop is left unchanged.

When configured to **false**, third-party next-hop processing is disabled and the next hop carries the IP address of the interface used to establish the TCP connection to the peer.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-evpn

Synopsis	Enter the **bgp-evpn** context
Context	**configure** service vprn *service-name* bgp-evpn
Tree	bgp-evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls [bgp-instance] *number*

Synopsis	Enter the **mpls** list instance
Context	**configure** service vprn *service-name* bgp-evpn mpls *number*
Tree	mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

[**bgp-instance**] *number*

Synopsis	BGP instance ID
Context	**configure** service vprn *service-name* bgp-evpn mpls *number*
Tree	mpls
Range	1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BGP-EVPN MPLS
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-bind-tunnel

Synopsis	Enter the **auto-bind-tunnel** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel
Tree	auto-bind-tunnel
Description	Commands in this context configure the automatic binding options of a BGP-EVPN service using tunnels to MP-BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-flex-algo-fallback *boolean*

Synopsis	Enable flexible algorithm fallback
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel allow-flex-algo-fallback *boolean*
Tree	allow-flex-algo-fallback
Description	When configured to **true**, a BGP router with a Flex-Algorithm action configured (via the **configure policy-options policy-statement entry action flex-algo** command) can resolve to a tunnel with algorithm 0 if no target Flex-Algorithm tunnel is available**.** When configured to **false**, the BGP router can resolve only to the intended Flex-Algorithm tunnel, which may cause traffic loss if no corresponding Flex-Algorithm tunnel is available.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ecmp *number*

Synopsis	Maximum ECMP routes allowed
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel ecmp *number*
Tree	ecmp

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Description	This command configures the maximum number of tunnels that can be used as ECMP next hops for the VPRN. This value overrides the ECMP value configured at the **configure service vprn** context level.
Range	1 to 32
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-strict-tunnel-tagging *boolean*

Synopsis	Allow enforcement of strict tunnel tagging
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel enforce-strict-tunnel-tagging *boolean*
Tree	enforce-strict-tunnel-tagging
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-untagged-route *keyword*

Synopsis	Untagged route type enforcement
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel enforce-untagged-route *keyword*
Tree	enforce-untagged-route
Description	This command configures the enforcement of BGP routes with no administrative tag policy applied by modifying the next-hop resolution behavior for autobind services. If the **untagged-tunnel** option is configured, untagged routes only bind to LSPs with no administrative tag configured. If both tagged and untagged tunnels to the next hop exist, the system only considers the untagged tunnels. If no untagged tunnels to the next hop exist, the resolution of untagged routes fails. The **untagged-tunnel** option can be used in combination with the **enforce-strict-tunnel-tagging** command configured to **true**, in which case tagged routes resolve to tagged LSPs, and untagged routes only resolve to untagged LSPs. When unconfigured, untagged routes can bind to tagged or untagged LSPs.
Options	none – Untagged routes can bind to tagged or untagged LSPs untagged-tunnel – Untagged routes only bind to LSPs without an admin tag
Default	none
Introduced	25.3.R2

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Platforms	SAR Gen 2

resolution *keyword*

Synopsis	Resolution method for tunnel selection
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution *keyword*
Tree	resolution
Options	none, filter, any
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter
Tree	resolution-filter
Description	Commands in this context configure the subset of tunnel types that can be used in the resolution of BGP-EVPN routes within the automatic binding of the BGP-EVPN MPLS service to tunnels to MP-BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *boolean*

Synopsis	Use BGP tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter bgp *boolean*
Tree	bgp
Description	When configured to **true**, BGP searches the BGP LSP for the address of the BGP next hop. When configured to **false**, BGP tunneling is not used and inter-area or inter-as prefixes are not resolved.
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

ldp *boolean*

Synopsis	Use LDP tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter ldp *boolean*
Tree	ldp
Description	When configured to **true**, BGP searches for an LDP LSP with a FEC prefix corresponding to the address of the BGP next hop. When configured to **false**, LDP tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter rsvp *boolean*
Tree	rsvp
Description	When configured to **true**, BGP searches the best metric RSVP LSP to determine the address of the BGP next hop. This address can correspond to the system interface or to another loopback interface used by the BGP instance on the remote node. The LSP metric is provided by MPLS in the tunnel table. In the case of multiple RSVP LSPs with the same lowest metric, BGP selects the LSP with the lowest tunnel ID. When configured to **false**, the RSVP LSP is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis *boolean*

Synopsis	Use IS-IS SR tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-isis *boolean*
Tree	sr-isis

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Description	When configured to **true**, BGP uses an IS-IS tunnel type to resolve the BGP next hop. When the **sr-isis** command is enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure. • Select the SR tunnel submitted by the IS-IS instance with the lowest tunnel table preference. • If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric. • If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID. When configured to **false**, IS-IS tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf *boolean*

Synopsis	Use OSPF SR tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-ospf *boolean*
Tree	sr-ospf
Description	When configured to **true**, BGP uses an OSPF tunnel type to resolve the BGP next hop. When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure. • Select the SR tunnel submitted by the OSPF instance with the lowest tunnel table preference. • If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric. • If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID. When configured to **false**, OSPF tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-ospf3 *boolean*

Synopsis	Use OSPFv3 SR tunneling for next-hop resolution

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Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-ospf3 *boolean*
Tree	sr-ospf3
Description	When configured to **true**, BGP uses an OSPF3 tunnel type to resolve the BGP next hop. When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure. • Select the SR tunnel submitted by the OSPFv3 instance with the lowest tunnel table preference. • If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric. • If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID. When configured to **false**, OSPF3 tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-policy *boolean*

Synopsis	Use SR policies for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-policy *boolean*
Tree	sr-policy
Description	When configured to **true**, this command enables the use of SR policies to resolve the next hop of BGP-EVPN service routes. This command configures BGP to search for an SR policy with: • a non-null endpoint that matches the next hop of the service route, and • a color value that matches the highest numbered color for the extended community attached to the service route
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-te *boolean*

Synopsis	Use SR-TE tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* auto-bind-tunnel resolution-filter sr-te *boolean*

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Tree	sr-te
Description	When configured to **true**, BGP uses an SR-TE tunnel type to resolve the BGP next hop. In the case of multiple SR-TE tunnels with the same lowest metric, BGP selects the tunnel with the lowest tunnel ID. When configured to **false**, SR-TE tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

default-route-tag *one-byte-value*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Default route tag
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* default-route-tag *one-byte-value*
Tree	default-route-tag
Description	This command configures a route tag that is used when sending a route to the BGP application (for the corresponding service and BGP instance). If the corresponding BGP instance is enabled, the command cannot be changed. When used for BGP EVPN contexts, only one route tag can be passed to BGP for matching on export policies. In case of a conflict with other route tags pushed by EVPN, the default route tag has the least priority.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-id *domain-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Domain ID of received BGP route before readvertisement
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* domain-id *domain-id*
Tree	domain-id
Description	This command specifies the D-PATH domain ID. The domain ID identifies the network from which the BGP route was received before the RTM advertises it to a different

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neighbor. The domain ID is part of a domain, represented as domain-id:isf_safi_type in the D-PATH attribute, as described in *draft-ietf-bess-evpn-ipvpn-interworking*. Gateway routers modify the D-PATH attribute. A gateway is a PE where a VPRN is instantiated. The VPRN in this case advertises or receives routes from multiple BGP owners (for example, EVPN-IFL and BGP-IPVPN) or multiple instances of the same owner (for example, VPRN with two BGP-IPVPN instances).

Gateways use the D-PATH attribute to detect loops (for received routes where the D-PATH contains a local domain ID) and to make BGP best-path selection decisions based on the D-PATH length (shorter D-PATH is preferred).

In the following example, suppose a gateway receives prefix P in an EVPN-IFL instance with the following D-PATH from neighbor N:

Seg Len=1 / 65000:1:128

If the router imports the route in VPRN-1, BGP-EVPN SRv6 instance with domain 65000:2, it readvertises it to its BGP-IPVPN MPLS instance as follows:

Seg Len=2 / 65000:2:70 / 65000:1:128

That is, the gateway prepends the local domain ID and family to the D-PATH before readvertising the route into a different instance.

String format 'domain-id' must be global-field:local-field (uint32:uint16 range)

Introduced 25.3.R2

Platforms SAR Gen 2

dynamic-egress-label-limit *boolean*

Synopsis Enables dynamic egress label limit

Context **configure** service vprn *service-name* bgp-evpn mpls *number* dynamic-egress-label-limit *boolean*

Tree dynamic-egress-label-limit

Description When configured to **true**, this command relaxes the egress MPLS label limit check when resolving BGP next hops in the tunnel table.

For VPRN services, the OAM label is never computed and, therefore, one more egress label is allowed.

For EVPN (Epipe and VPLS) services, the system only computes the control word and ESI label if they are used. For the control word, the system reduces the egress label limit by one label if the control word is configured in the service. When configured, the ESI label is not counted for Epipes or VPLS services without an ES.

When configured to **false** this command, for EVPN, Epipe, and VPLS services, always accounts for the ESI label and control word.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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evi *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	EVPN instance ID
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* evi *number*
Tree	evi
Description	This command configures the EVI that identifies the BGP EVPN instance in a VPRN (for the EVPN-IFL model) that is associated with the Layer 3 Ethernet segment. This configuration is required on the PEs attached to the Ethernet segment and on the remote PEs that need to create ES destinations to the MH Layer 3 Ethernet segment.
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-link-bandwidth

Synopsis	Enter the **evpn-link-bandwidth** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* evpn-link-bandwidth
Tree	evpn-link-bandwidth
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise

Synopsis	Enable the **advertise** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* evpn-link-bandwidth advertise
Tree	advertise
Introduced	25.3.R2
Platforms	SAR Gen 2

max-dynamic-weight *number*

Synopsis	Maximum dynamic weight of the route

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Context	**configure** service vprn *service-name* bgp-evpn mpls *number* evpn-link-bandwidth advertise max-dynamic-weight *number*
Tree	max-dynamic-weight
Description	This command configures the maximum weight advertised in the EVPN link bandwidth extended community for the advertised EVPN IP-Prefix routes for the service. If weight dynamic is configured, the actual advertised weight is the minimum of the number of BGP PE-CE paths for the prefix and the configured maximum weight.
Range	1 to 128
Default	128
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *(number | keyword)*

Synopsis	Weight of the route
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* evpn-link-bandwidth advertise weight *(number | keyword)*
Tree	weight
Description	This command configures the weight advertised in the EVPN link bandwidth extended community for the advertised EVPN IP-Prefix routes for the service. If set to **dynamic**, the weight is dynamically set based on the number of BGP PE-CE paths for the IP-Prefix that is advertised in an EVPN IP-Prefix route.
Range	1 to 128
Options	dynamic
Default	dynamic
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *boolean*

Synopsis	Enable weighted ECMP
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* evpn-link-bandwidth weighted-ecmp *boolean*
Tree	weighted-ecmp
Description	When configured to **true**, the router supports the processing of the EVPN link bandwidth extended community when installing an ECMP set for an EVPN IP-Prefix route in the VPRN route table.

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Flows to an IP Prefix received with a weight and a zero ESI value are sprayed according to the weight. If the EVPN IP-Prefix route received with the weight has a non-zero ESI, the weight is divided into the number of PEs attached to the Ethernet Segment (and rounded up if the result is not an integer).

The command also enables the weighted ECMP functionality for BGP CEs that are configured with an **evpn-link-bandwidth add-to-received-bgp** weight.

When configured to **false**, the router disables the processing of the EVPN link bandwidth extended community.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

gateway-ip

Synopsis Enter the **gateway-ip** context

Context **configure** service vprn *service-name* bgp-evpn mpls *number* gateway-ip

Tree gateway-ip

Introduced 25.7.R1

Platforms SAR Gen 2

advertise *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis Enable the advertisement of GW-IP in IP prefix routes

Context **configure** service vprn *service-name* bgp-evpn mpls *number* gateway-ip advertise *boolean*

Tree advertise

Description When configured to **true**, the router advertises an IP prefix route for prefix P with the next hop N in the GW-IP field when a BGP PE-CE route for P is received from N. If multiple CEs advertise the same prefix P from different next hops, and the **configure router bgp add-paths evpn** command is enabled on the Base router, the router generates multiple IP prefix routes. Each of these routes has a unique next hop encoded in the GW-IP field and a distinct path ID.

When configured to **false**, IP prefix routes are advertised without a non-zero GW-IP value.

Default false

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Introduced	25.7.R1
Platforms	SAR Gen 2

resolve *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the resolution of GW-IP in IP prefix routes
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* gateway-ip resolve *boolean*
Tree	resolve
Description	When configured to **true**, the router resolves IP prefix routes with a non-zero GW-IP to either EVPN-IFL-HOST routes that match the GW-IP or to local R-VPLS interfaces if the GW-IP is associated with a local R-VPLS interface. When configured to **false**, IP prefix routes with a non-zero GW-IP remain unresolved.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

route-distinguisher *(string | keyword)*

Synopsis	Route distinguisher
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* route-distinguisher *(string | keyword)*
Tree	route-distinguisher
Description	This command specifies a unique route distinguisher (RD) to be associated with each routing instance to identify which VPN the route belongs to.
Options	auto-rd
String format	'vprn-bgp-evpn-mpls-rd' must be IP:comm or AS-number pair per RD rules
Introduced	25.3.R2
Platforms	SAR Gen 2

send-tunnel-encap

Synopsis	Enter the **send-tunnel-encap** context

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Context	**configure** service vprn *service-name* bgp-evpn mpls *number* send-tunnel-encap
Tree	send-tunnel-encap
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable MPLS encapsulation
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* send-tunnel-encap mpls *boolean*
Tree	mpls
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

vrf-export

Synopsis	Enable the **vrf-export** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-export
Tree	vrf-export
Description	Commands in this context specify route policies that control how routes are exported from the local VRF to other VRFs on the same or remote PE routers (via MP-BGP). Aggregate routes are not advertised via MP-BGP protocols to other MP-BGP peers. Route policies are configured in the **configure policy-options** context.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Policy name
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-export policy *(policy-expr-string | string)*
Tree	policy

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Description	This command configures VRF route policies that control routes between local VRFs and other VRFs on the same or remote PE routers (using MP-BGP). Each referenced object is either a policy logical expression or the name of a single policy. Only one referenced object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). The objects are evaluated in the specified order to determine whether to accept or reject the route. Only the first policy can have the maximum length and the rest can be up to 64 characters. Aggregate routes are not advertised using MP-BGP protocols to the other MP-BGP peers.
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrf-import

Synopsis	Enable the **vrf-import** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-import
Tree	vrf-import
Description	Commands in this context specify route policies that control how VPN-IP and EVPN-IFL routes that are exported by other VRFs on the same or remote PEs, are imported into the local VRF. Route policies are configured in the **configure policy-options** context. Unless the preference value is changed by the policy, the preference value for BGP-VPN and EVPN-IFL routes specified in this context is set to 170 when imported from remote PE routers, or the value is retained from the protocol preference value of the exported route when imported from other VRFs on the same router.
Introduced	25.3.R2
Platforms	SAR Gen 2

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policy *(policy-expr-string | string)*

Synopsis	Policy name
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command configures VRF route policies that control routes between local VRFs and other VRFs on the same or remote PE routers (using MP-BGP). Each referenced object is either a policy logical expression or the name of a single policy. Only one referenced object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). The objects are evaluated in the specified order to determine whether to accept or reject the route. Only the first policy can have the maximum length and the rest can be up to 64 characters. Aggregate routes are not advertised using MP-BGP protocols to the other MP-BGP peers.
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrf-target

Synopsis	Enter the **vrf-target** context
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-target
Tree	vrf-target
Description	Commands in this context configure the route target that is added to advertised routes or compared against received routes from other VRFs on the same or remote PE routers (via MP-BGP). BGP-VPN and EVPN-IFL routes imported using a VRF target configuration use the BGP preference value of 170 when imported from remote PE routers, or retain the protocol preference value of the exported route when imported from other VRFs in the same router.

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Configured VRF import or export policies override the VRF target policy.

Introduced	25.3.R2
Platforms	SAR Gen 2

community *route-target*

Synopsis	Extended BGP community
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-target community *route-target*
Tree	community
Description	This command configures an extended BGP community in the form type:x:y. Type can only be target and x and y are 16-bit integers.
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Notes	The following elements are part of a choice: **community** or (**export-community** and **import-community**).
Introduced	25.3.R2
Platforms	SAR Gen 2

export-community *route-target*

Synopsis	Communities sent to remote PE neighbors
Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-target export-community *route-target*
Tree	export-community
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Notes	The following elements are part of a choice: **community** or (**export-community** and **import-community**).
Introduced	25.3.R2
Platforms	SAR Gen 2

import-community *route-target*

Synopsis	Communities accepted from remote PE neighbors

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Context	**configure** service vprn *service-name* bgp-evpn mpls *number* vrf-target import-community *route-target*
Tree	import-community
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Notes	The following elements are part of a choice: **community** or (**export-community** and **import-community**).
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-ipvpn

Synopsis	Enter the **bgp-ipvpn** context
Context	**configure** service vprn *service-name* bgp-ipvpn
Tree	bgp-ipvpn
Introduced	25.3.R2
Platforms	SAR Gen 2

attribute-set

Synopsis	Enter the **attribute-set** context
Context	**configure** service vprn *service-name* bgp-ipvpn attribute-set
Tree	attribute-set
Description	Commands in this context configure the handling of attribute set (ATTR_SET) attributes attached to VPN-IP routes imported into or exported from the VPRN. ATTR_SET is an optional transitive BGP path attribute standardized by RFC 6368 that is added to BGP L3 VPN routes to provide logical separation between the BGP domain of a customer and the BGP domain of a service provider.
Introduced	25.3.R2
Platforms	SAR Gen 2

export *boolean*

Synopsis	Add ATTR_SET path attribute to exported VPN-IP routes
Context	**configure** service vprn *service-name* bgp-ipvpn attribute-set export *boolean*
Tree	export

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Description When configured to **true**, the router adds an ATTR_SET path attribute to all VPN-IP routes that come from the VRF export of BGP routes advertised by PE-CE peers of the VPRN. This attribute contains an exact copy of all BGP path attributes (post-import policy) of the PE-CE BGP route, excluding the NEXT_HOP, MP_REACH, and MP_UNREACH attributes, as well as the AS4_PATH or AS4_AGGREGATOR attributes. The origin AS in the ATTR_SET encodes the ASN (or confederation ID, if configured) of the exporting VPRN service. Neither the VRF export policy nor a regular BGP export policy is allowed to modify the contents of the ATTR_SET.

When configured to **false**, the router does not add an ATTR_SET path attribute to VPN-IP routes exported by the VPRN. Nokia recommends configuring this command to **false**, unless there is a requirement for the VPRN to deliver an independent domain L3 VPN service.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

import *keyword*

Synopsis Reception behavior of ATTR_SET

Context **configure** service vprn *service-name* bgp-ipvpn attribute-set import *keyword*

Tree import

Description This command configures the reception behavior for ATTR_SETs in received VPN-IP routes.

- **accept** — BGP accepts and processes ATTR_SETs in received unicast VPN-IP routes (MPLS or SRv6) when they are imported into the VPRN. The path attributes contained inside the ATTR_SET are used for best path selection within the VPRN, instead of the outer path attributes attached to the imported VPN-IP route. The path attributes inside the ATTR_SET determine the path attributes of BGP routes advertised to PE-CE peers of the VPRN. However, the ATTR_SET is removed at the time of advertisement. VPRN BGP routes with attributes derived from **accept** processing can only be advertised to EBGP peers and IBGP route reflector client peers. VPRN BGP routes cannot be advertised to BGP confederation peers. If the origin AS in the ATTR_SET attribute does not match the configured ASN, VPRN BGP routes with attributes derived from **accept** processing are advertised to IBGP peers that are not covered by a cluster configuration.
- **drop** — BGP ignores and silently discards ATTR_SETs in received VPN-IP routes when they are imported into the VPRN. The path attributes contained inside the ATTR_SET are not used for best path selection within the VPRN. If a VPRN is not involved in an independent domain L3 VPN service, Nokia recommends configuring this command to use the **drop** option.
- **ignore** — BGP ignores ATTR_SETs in received VPN-IP routes when they are imported into the VPRN. The path attributes contained inside the ATTR_SET are not used for best path selection within the VPRN. With the **ignore** option, the ATTR_SET

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attribute is transmitted unchanged to the CE. Nokia recommends not to configure this command to use the **ignore** option in most deployments.

Options	ignore, accept, drop
Default	ignore
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls

Synopsis	Enter the **mpls** context
Context	**configure** service vprn *service-name* bgp-ipvpn mpls
Tree	mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BGP-IPVPN MPLS
Context	**configure** service vprn *service-name* bgp-ipvpn mpls admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-bind-tunnel

Synopsis	Enter the **auto-bind-tunnel** context
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel
Tree	auto-bind-tunnel
Description	Commands in this context configure the automatic-binding options of a BGP-IPVPN service using tunnels to MP-BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

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allow-flex-algo-fallback *boolean*

Synopsis	Enable flexible algorithm fallback
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel allow-flex-algo-fallback *boolean*
Tree	allow-flex-algo-fallback
Description	When configured to **true**, a BGP router with a Flex-Algorithm action configured (via the **configure policy-options policy-statement entry action flex-algo** command) can resolve to a tunnel with algorithm 0 if no target Flex-Algorithm tunnel is available**.** When configured to **false**, the BGP router can resolve only to the intended Flex-Algorithm tunnel, which may cause traffic loss if no corresponding Flex-Algorithm tunnel is available.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ecmp *number*

Synopsis	Maximum ECMP routes allowed
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel ecmp *number*
Tree	ecmp
Description	This command configures the maximum number of tunnels that can be used as ECMP next hops for the VPRN. This value overrides the ECMP value configured at the **configure service vprn** context level.
Range	1 to 32
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-strict-tunnel-tagging *boolean*

Synopsis	Allow enforcement of strict tunnel tagging
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel enforce-strict-tunnel-tagging *boolean*
Tree	enforce-strict-tunnel-tagging
Description	When configured to **true**, the system must only consider LSPs marked with an administrative tag for next-hop resolution.

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When configured to **false**, tagged RSVP and SR-TE LSPs are considered first. The system then uses untagged LSPs of other types.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

enforce-untagged-route *keyword*

Synopsis Untagged route type enforcement

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel enforce-untagged-route *keyword*

Tree enforce-untagged-route

Description This command configures the enforcement of BGP routes with no administrative tag policy applied by modifying the next-hop resolution behavior for autobind services.

If the **untagged-tunnel** option is configured, untagged routes only bind to LSPs with no administrative tag configured. If both tagged and untagged tunnels to the next hop exist, the system only considers the untagged tunnels. If no untagged tunnels to the next hop exist, the resolution of untagged routes fails.

The **untagged-tunnel** option can be used in combination with the **enforce-strict-tunnel-tagging** command configured to **true**, in which case tagged routes resolve to tagged LSPs, and untagged routes only resolve to untagged LSPs.

When unconfigured, untagged routes can bind to tagged or untagged LSPs.

Options none – Untagged routes can bind to tagged or untagged LSPs
untagged-tunnel – Untagged routes only bind to LSPs without an admin tag

Default none

Introduced 25.3.R2

Platforms SAR Gen 2

resolution *keyword*

Synopsis Resolution method for tunnel selection

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution *keyword*

Tree resolution

Options none, filter, any

Default none

Introduced 25.3.R2

Platforms SAR Gen 2

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resolution-filter

Synopsis	Enter the **resolution-filter** context
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter
Tree	resolution-filter
Description	Commands in this context configure the subset of tunnel types that can be used in the resolution of BGP-IPVPN routes within the automatic binding of the BGP-IPVPN MPLS service to tunnels to MP-BGP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp *boolean*

Synopsis	Use BGP tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter bgp *boolean*
Tree	bgp
Description	When configured to **true**, BGP searches the BGP LSP for the address of the BGP next hop. When configured to **false**, BGP tunneling is not used and inter-area or inter-as prefixes are not resolved.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

gre *boolean*

Synopsis	Use GRE tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter gre *boolean*
Tree	gre
Description	When configured to **true**, this command enables setting the tunnel type for the auto bind tunnel.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ldp *boolean*

Synopsis	Use LDP tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter ldp *boolean*
Tree	ldp
Description	When configured to **true**, BGP searches for an LDP LSP with a FEC prefix corresponding to the address of the BGP next hop. When configured to **false**, LDP tunneling is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rsvp *boolean*

Synopsis	Use RSVP tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter rsvp *boolean*
Tree	rsvp
Description	When configured to **true**, BGP searches the best metric RSVP LSP to determine the address of the BGP next hop. This address can correspond to the system interface or to another loopback interface used by the BGP instance on the remote node. The LSP metric is provided by MPLS in the tunnel table. In the case of multiple RSVP LSPs with the same lowest metric, BGP selects the LSP with the lowest tunnel ID. When configured to **false**, the RSVP LSP is not used for next-hop resolution.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sr-isis *boolean*

Synopsis	Use IS-IS SR tunneling for next-hop resolution
Context	**configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter sr-isis *boolean*
Tree	sr-isis
Description	When configured to **true**, BGP uses an IS-IS tunnel type to resolve the BGP next hop. When the **sr-isis** command is enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

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- Select the SR tunnel submitted by the IS-IS instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, IS-IS tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-ospf *boolean*

Synopsis Use OSPF SR tunneling for next-hop resolution

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter sr-ospf *boolean*

Tree sr-ospf

Description When configured to **true**, BGP uses an OSPF tunnel type to resolve the BGP next hop.

When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the OSPF instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, OSPF tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-ospf3 *boolean*

Synopsis Use OSPFv3 SR tunneling for next-hop resolution

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter sr-ospf3 *boolean*

Tree sr-ospf3

Description When configured to **true**, BGP uses an OSPF3 tunnel type to resolve the BGP next hop.

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When enabled, an SR tunnel to the BGP next hop is selected in the TTM according to the following procedure.

- Select the SR tunnel submitted by the OSPFv3 instance with the lowest tunnel table preference.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest metric.
- If more than one SR tunnel exists, select the SR tunnel from the instance with the lowest instance ID.

When configured to **false**, OSPF3 tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-policy *boolean*

Synopsis Use SR policies for next-hop resolution

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter sr-policy *boolean*

Tree sr-policy

Description When configured to **true**, this command enables the use of SR policies to resolve the next hop of BGP IP-VPN service routes.

This command configures BGP to search for an SR policy with:

- a non-null endpoint that matches the next hop of the service route, and
- a color value that matches the highest numbered color for the extended community attached to the service route

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

sr-te *boolean*

Synopsis Use SR-TE tunneling for next-hop resolution

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel resolution-filter sr-te *boolean*

Tree sr-te

Description When configured to **true**, BGP uses an SR-TE tunnel type to resolve the BGP next hop.

In the case of multiple SR-TE tunnels with the same lowest metric, BGP selects the tunnel with the lowest tunnel ID.

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When configured to **false**, SR-TE tunneling is not used for next-hop resolution.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

static-blackhole-first *boolean*

Synopsis Check for static blackhole route to resolve next hop

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel static-blackhole-first *boolean*

Tree static-blackhole-first

Description When configured to **true**, the router uses a modified next-hop resolution sequence for each imported VPN-IP route. The router first checks for a static route in the Base routing table that matches the BGP next-hop address. If at least one such static route exists, and the route that is the longest match of the BGP next-hop address is a blackhole static route, the router resolves the VPN-IP route and programs it into the VPRN IP FIB table with a next-hop action that discards all matching packets. If there is no matching static route, or the longest matching static route is not a blackhole, the router resolves the VPN-IP route in the Base routing table as normal, that is, according to the configured VPRN auto-bind filter options.

When configured to **false**, the router resolves the VPN-IP route in the Base routing table according to the configured VPRN auto-bind filter options.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

weighted-ecmp *boolean*

Synopsis Allow weighted load-balancing

Context **configure** service vprn *service-name* bgp-ipvpn mpls auto-bind-tunnel weighted-ecmp *boolean*

Tree weighted-ecmp

Description When configured to **true**, this command enables weighted ECMP for packets using tunnels that a VPRN automatically binds to. Packets are sprayed across LSPs in the ECMP according to the outcome of the hash algorithm and the configured load balancing weight of each LSP.

When configured to **false**, this command disables weighted ECMP for next-hop tunnel selection.

Default false

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Introduced	25.3.R2
Platforms	SAR Gen 2

domain-id *domain-id*

Synopsis	Domain ID of received BGP route before readvertisement
Context	**configure** service vprn *service-name* bgp-ipvpn mpls domain-id *domain-id*
Tree	domain-id
Description	This command specifies the D-PATH domain ID. The domain ID identifies the network from which the BGP route was received before the RTM advertises it to a different neighbor. The domain ID is part of a domain, represented as domain-id:isf_safi_type in the D-PATH attribute, as described in *draft-ietf-bess-evpn-ipvpn-interworking*. Gateway routers modify the D-PATH attribute. A gateway is a PE where a VPRN is instantiated. The VPRN in this case advertises or receives routes from multiple BGP owners (for example, EVPN-IFL and BGP-IPVPN) or multiple instances of the same owner (for example, VPRN with two BGP-IPVPN instances). Gateways use the D-PATH attribute to detect loops (for received routes where the D-PATH contains a local domain ID) and to make BGP best-path selection decisions based on the D-PATH length (shorter D-PATH is preferred). In the following example, suppose a gateway receives prefix P in an EVPN-IFL instance with the following D-PATH from neighbor N: Seg Len=1 / 65000:1:128 If the router imports the route in VPRN-1, BGP-EVPN SRv6 instance with domain 65000:2, it readvertises it to its BGP-IPVPN MPLS instance as follows: Seg Len=2 / 65000:2:70 / 65000:1:128 That is, the gateway prepends the local domain ID and family to the D-PATH before readvertising the route into a different instance.
String format	'domain-id' must be global-field:local-field (uint32:uint16 range)
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-egress-label-limit *boolean*

Synopsis	Enables dynamic egress label limit
Context	**configure** service vprn *service-name* bgp-ipvpn mpls dynamic-egress-label-limit *boolean*
Tree	dynamic-egress-label-limit
Description	When configured to **true**, this command relaxes the egress MPLS label limit check when resolving BGP next hops in the tunnel table.

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For VPRN services, the OAM label is never computed and, therefore, one more egress label is allowed.

For EVPN (Epipe and VPLS) services, the system only computes the control word and ESI label if they are used. For the control word, the system reduces the egress label limit by one label if the control word is configured in the service. When configured, the ESI label is not counted for Epipes or VPLS services without an ES.

When configured to **false** this command, for EVPN, Epipe, and VPLS services, always accounts for the ESI label and control word.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

route-distinguisher *(string | keyword)*

Synopsis Route distinguisher

Context **configure** service vprn *service-name* bgp-ipvpn mpls route-distinguisher *(string | keyword)*

Tree route-distinguisher

Description This command specifies a unique route distinguisher (RD) to be associated with each routing instance to identify which VPN the route belongs to.

Options auto-rd

String format 'vprn-bgp-evpn-mpls-rd' must be IP:comm or AS-number pair per RD rules

Introduced 25.3.R2

Platforms SAR Gen 2

vrf-export

Synopsis Enable the **vrf-export** context

Context **configure** service vprn *service-name* bgp-ipvpn mpls vrf-export

Tree vrf-export

Description Commands in this context specify route policies that control how routes are exported from the local VRF to other VRFs on the same or remote PE routers (via MP-BGP).

Aggregate routes are not advertised via MP-BGP protocols to other MP-BGP peers.

Route policies are configured in the **configure policy-options** context.

Introduced 25.3.R2

Platforms SAR Gen 2

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policy *(policy-expr-string | string)*

Synopsis	Policy name
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-export policy *(policy-expr-string | string)*
Tree	policy
Description	This command configures VRF route policies that control routes between local VRFs and other VRFs on the same or remote PE routers (using MP-BGP). Each referenced object is either a policy logical expression or the name of a single policy. Only one referenced object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). The objects are evaluated in the specified order to determine whether to accept or reject the route. Only the first policy can have the maximum length and the rest can be up to 64 characters. Aggregate routes are not advertised using MP-BGP protocols to the other MP-BGP peers.
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrf-import

Synopsis	Enable the **vrf-import** context
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-import
Tree	vrf-import
Description	Commands in this context specify route policies that control how VPN-IP and EVPN-IFL routes that are exported by other VRFs on the same or remote PEs, are imported into the local VRF. Route policies are configured in the **configure policy-options** context. Unless the preference value is changed by the policy, the preference value for BGP-VPN and EVPN-IFL routes specified in this context is set to 170 when imported from

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remote PE routers, or the value is retained from the protocol preference value of the exported route when imported from other VRFs on the same router.

Introduced	25.3.R2
Platforms	SAR Gen 2

policy *(policy-expr-string | string)*

Synopsis	Policy name
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-import policy *(policy-expr-string | string)*
Tree	policy
Description	This command configures VRF route policies that control routes between local VRFs and other VRFs on the same or remote PE routers (using MP-BGP). Each referenced object is either a policy logical expression or the name of a single policy. Only one referenced object can be a policy logical expression consisting of policy names (enclosed in square brackets) and logical operators (AND, OR, NOT). The objects are evaluated in the specified order to determine whether to accept or reject the route. Only the first policy can have the maximum length and the rest can be up to 64 characters. Aggregate routes are not advertised using MP-BGP protocols to the other MP-BGP peers.
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	15
Min. instances	1
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

vrf-target

Synopsis	Enter the **vrf-target** context
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-target
Tree	vrf-target

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Description	Commands in this context configure the route target that is added to advertised routes or compared against received routes from other VRFs on the same or remote PE routers (via MP-BGP). BGP-VPN and EVPN-IFL routes imported using a VRF target configuration use the BGP preference value of 170 when imported from remote PE routers, or retain the protocol preference value of the exported route when imported from other VRFs in the same router. Configured VRF import or export policies override the VRF target policy.
Introduced	25.3.R2
Platforms	SAR Gen 2

community *route-target*

Synopsis	Extended BGP community
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-target community *route-target*
Tree	community
Description	This command configures an extended BGP community in the form type:x:y. Type can only be target and x and y are 16-bit integers.
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Notes	The following elements are part of a choice: **community** or (**export-community** and **import-community**).
Introduced	25.3.R2
Platforms	SAR Gen 2

export-community *route-target*

Synopsis	Communities sent to remote PE neighbors
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-target export-community *route-target*
Tree	export-community
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Notes	The following elements are part of a choice: **community** or (**export-community** and **import-community**).
Introduced	25.3.R2

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Platforms	SAR Gen 2

import-community *route-target*

Synopsis	Communities accepted from remote PE neighbors
Context	**configure** service vprn *service-name* bgp-ipvpn mpls vrf-target import-community *route-target*
Tree	import-community
String length	10 to 28
String format	'route-target-32' must be target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Notes	The following elements are part of a choice: **community** or (**export-community** and **import-community**).
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-shared-queue

Synopsis	Enable the **bgp-shared-queue** context
Context	**configure** service vprn *service-name* bgp-shared-queue
Tree	bgp-shared-queue
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	Committed information rate for shared queue
Context	**configure** service vprn *service-name* bgp-shared-queue cir *(number | keyword)*
Tree	cir
Range	0 to 100000000
Units	kilobps
Options	max
Default	4000
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *(number | keyword)*

Synopsis	Peak information rate for shared queue
Context	**configure** service vprn *service-name* bgp-shared-queue pir *(number | keyword)*
Tree	pir
Range	1 to 100000000
Units	kilobps
Options	max
Default	4000
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-vpn-backup

Synopsis	Enter the **bgp-vpn-backup** context
Context	**configure** service vprn *service-name* bgp-vpn-backup
Tree	bgp-vpn-backup
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Allow BGP-VPN to be used as backup for IPv4 prefixes
Context	**configure** service vprn *service-name* bgp-vpn-backup ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Allow BGP-VPN to be used as backup for IPv6 prefixes
Context	**configure** service vprn *service-name* bgp-vpn-backup ipv6 *boolean*
Tree	ipv6
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

carrier-carrier-vpn *boolean*

Synopsis	Allow VPRN service to support a Carrier Supporting Carrier model
Context	**configure** service vprn *service-name* carrier-carrier-vpn *boolean*
Tree	carrier-carrier-vpn
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

confederation

Synopsis	Enter the **confederation** context
Context	**configure** service vprn *service-name* confederation
Tree	confederation
Introduced	25.3.R2
Platforms	SAR Gen 2

confed-as-num *number*

Synopsis	Confederation number within an autonomous system
Context	**configure** service vprn *service-name* confederation confed-as-num *number*
Tree	confed-as-num
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

members [as-number] *number*

Synopsis	Add a list entry for **members**
Context	**configure** service vprn *service-name* confederation members *number*
Tree	members

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Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**as-number**] *number*

Synopsis	Confederation AS number
Context	**configure** service vprn *service-name* confederation members *number*
Tree	members
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

customer *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service customer ID
Context	**configure** service vprn *service-name* customer *reference*
Tree	customer
Reference	**configure** service customer *customer-name*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

d-path-length-ignore *boolean*

Synopsis	Enable D-PATH length ignore
Context	**configure** service vprn *service-name* d-path-length-ignore *boolean*
Tree	d-path-length-ignore
Description	When configured to **true**, the VPRN RTM ignores the D-PATH domain segment length for best path selection purposes (for routes in the VPRN). This allows the user to control

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whether the RTM considers the D-PATH length when comparing two VPN routes with different RDs.

When configured to **false**, the router does not ignore the D-PATH domain segment length.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-server

Synopsis	Enter the **dhcp-server** context
Context	**configure** service vprn *service-name* dhcp-server
Tree	dhcp-server
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv4 [name] *named-item*

Synopsis	Enter the **dhcpv4** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	DHCP server name
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item*
Tree	dhcpv4
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP server
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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failover

Synopsis	Enter the **failover** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover
Tree	failover
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds

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Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover peer *reference*
Tree	peer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* failover startup-wait-time *number*
Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

force-renews *boolean*

Synopsis	Send FORCERENEW messages to force renewals of leases
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* force-renews *boolean*
Tree	force-renews
Description	When configured to **true**, FORCERENEW messages are enabled for DHCP.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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lease-hold

Synopsis	Enter the **lease-hold** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* lease-hold
Tree	lease-hold
Introduced	25.3.R2
Platforms	SAR Gen 2

additional-scenarios

Synopsis	Enter the **additional-scenarios** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios
Tree	additional-scenarios
Description	Commands in this context configure additional types of leases or triggers that cause the system to hold up leases.
Introduced	25.3.R2
Platforms	SAR Gen 2

fwa-address-assignment *boolean*

Synopsis	Apply lease hold timer to FWA session
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios fwa-address-assignment *boolean*
Tree	fwa-address-assignment
Description	When configured to **true**, the router applies the lease hold timer to non-deferred IP addresses or SLAAC prefixes assigned to FWA sessions.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

internal-lease-ipsec *boolean*

Synopsis	Apply the lease hold timer to local IPsec clients
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios internal-lease-ipsec *boolean*

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Tree	internal-lease-ipsec
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

solicited-release *boolean*

Synopsis	Apply lease hold timer for solicited releases
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* lease-hold additional-scenarios solicited-release *boolean*
Tree	solicited-release
Description	This command enables the server to hold up a lease even for a solicited release, for example, when the server receives a normal DHCP release message.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Lease hold time
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* lease-hold time *number*
Tree	time
Range	1 to 631152000
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

pool [pool-name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item*
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**pool-name**] *named-item*

Synopsis	DHCP server pool name
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

failover

Synopsis	Enter the **failover** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover
Tree	failover
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399

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Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds
Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* failover startup-wait-time *number*

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Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lease-time *number*

Synopsis	Maximum lease time
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* max-lease-time *number*
Tree	max-lease-time
Range	10 to 315446399
Units	seconds
Default	864000
Introduced	25.3.R2
Platforms	SAR Gen 2

min-lease-time *number*

Synopsis	Minimum lease time
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* min-lease-time *number*
Tree	min-lease-time
Range	10 to 315446399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

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minimum-free

Synopsis	Enter the **minimum-free** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free
Tree	minimum-free
Description	Commands in this context specify the minimum number of free addresses in this pool.
Introduced	25.3.R2
Platforms	SAR Gen 2

absolute *number*

Synopsis	Minimum number of free addresses in this pool or subnet
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free absolute *number*
Tree	absolute
Range	0 to 255
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate notification when addresses are depleted
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free event-when-depleted *boolean*
Tree	event-when-depleted
Description	When configured to **true**, a system-generated event is generated when all available addresses in the pool or subnet of a local DHCP server are depleted. When configured to **false**, no action is taken when all available addresses in the pool or subnet of a local DHCP server are depleted.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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percent *number*

Synopsis	Minimum free addresses as a percentage
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* minimum-free percent *number*
Tree	percent
Range	0 to 100
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

nak-non-matching-subnet *boolean*

Synopsis	Send NAK if no match for request address pool range
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* nak-non-matching-subnet *boolean*
Tree	nak-non-matching-subnet
Description	When configured to **true**, a NAK response when the local DHCPv4 server receives a DHCP request with option 50 (the client is trying to request a previously allocated message). If the address-allocation algorithm uses a pool that does not contain the requested address, the system returns the DHCP NAK. When configured to **false** or unconfigured, the system drops the DHCP packet.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

offer-time *number*

Synopsis	Time interval during which a DHCP offer remains valid
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* offer-time *number*
Tree	offer-time
Range	10 to 600
Units	seconds
Default	60

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Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send identification strings to client
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option as time duration
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Remove DHCP option from the configuration
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-address *ipv4-address*

Synopsis	DHCP option as a list of IPv4 addresses
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

netbios-node-type *keyword*

Synopsis	DHCP option as NetBIOS node type
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* options option *(number | keyword)* netbios-node-type *keyword*
Tree	netbios-node-type
Options	b-node, p-node, m-node, h-node

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Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subnet [ipv4-prefix] *ipv4-unicast-prefix*

Synopsis	Enter the **subnet** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix*
Tree	subnet
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-prefix**] *ipv4-unicast-prefix*

Synopsis	IPv4 prefix for the subnet
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix*
Tree	subnet
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address-range [start] *ipv4-unicast-address* end *ipv4-unicast-address*

Synopsis	Enter the **address-range** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *ipv4-unicast-address*

Synopsis	Lower bound of the IP address range

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Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Description	This command specifies the start of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-unicast-address*

Synopsis	Upper bound of the IP address range
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Description	This command specifies the end of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

failover-control-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Failover control type for this range
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* address-range *ipv4-unicast-address* end *ipv4-unicast-address* failover-control-type *keyword*
Tree	failover-control-type
Options	local, remote, access-driven
Default	local

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Introduced	25.3.R2
Platforms	SAR Gen 2

drain *boolean*

Synopsis	Prevent new lease assignment from this subnet
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* drain *boolean*
Tree	drain
Description	When configured to **true**, new leases cannot be assigned and existing leases are kept up until they are released. When configured to **false**, the subnet is active and new leases can be assigned.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude-addresses [start] *ipv4-unicast-address* end *ipv4-unicast-address*

Synopsis	Add a list entry for **exclude-addresses**
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* exclude-addresses *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	exclude-addresses
Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *ipv4-unicast-address*

Synopsis	Lower bound of the IP address range
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* exclude-addresses *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	exclude-addresses
Description	This command specifies the start of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-unicast-address*

Synopsis	Upper bound of the IP address range
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* exclude-addresses *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	exclude-addresses
Description	This command specifies the end of a range of IP addresses that are excluded from the pool of IP addresses in this subnet.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-declined *number*

Synopsis	Maximum number of declined addresses allowed
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* maximum-declined *number*
Tree	maximum-declined
Max. range	0 to 4294967295
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-free

Synopsis	Enter the **minimum-free** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free
Tree	minimum-free

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Description	Commands in this context specify the minimum number of free addresses in this pool.
Introduced	25.3.R2
Platforms	SAR Gen 2

absolute *number*

Synopsis	Minimum number of free addresses in this pool or subnet
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free absolute *number*
Tree	absolute
Range	0 to 255
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate notification when addresses are depleted
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free event-when-depleted *boolean*
Tree	event-when-depleted
Description	When configured to **true**, a system-generated event is generated when all available addresses in the pool or subnet of a local DHCP server are depleted. When configured to **false**, no action is taken when all available addresses in the pool or subnet of a local DHCP server are depleted.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

percent *number*

Synopsis	Minimum free addresses as a percentage
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* minimum-free percent *number*
Tree	percent

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Range	0 to 100
Default	1
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send identification strings to client
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)*
Tree	option
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option as time duration
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-address *ipv4-address*

Synopsis	DHCP option as a list of IPv4 addresses
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

netbios-node-type *keyword*

Synopsis	DHCP option as NetBIOS node type
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool *named-item* subnet *ipv4-unicast-prefix* options option *(number | keyword)* netbios-node-type *keyword*
Tree	netbios-node-type
Options	b-node, p-node, m-node, h-node

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Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-selection

Synopsis	Enter the **pool-selection** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool-selection
Tree	pool-selection
Introduced	25.3.R2
Platforms	SAR Gen 2

use-gi-address

Synopsis	Enable the **use-gi-address** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool-selection use-gi-address
Tree	use-gi-address
Description	Commands in this context configure gateway interface (GI) address matching. When configured, the pool can be used for address matching even if a subnet is not found. If the local user database name is not used, addresses are provided only by GI. If a user must be blocked from getting an address, the server maps to a local user database and configures the user with no address. A pool can include multiple subnets. Since the GI is shared by multiple subnets in a subscriber interface, the pool can provide IP addresses from any of the subnets included when the GI is matched to one of its subnets. This allows a pool to be created that represents a sub-net.
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	GI address-matching scope
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool-selection use-gi-address scope *keyword*
Tree	scope
Options	subnet, pool

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Default	subnet
Introduced	25.3.R2
Platforms	SAR Gen 2

use-pool-from-client

Synopsis	Enable the **use-pool-from-client** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool-selection use-pool-from-client
Tree	use-pool-from-client
Introduced	25.3.R2
Platforms	SAR Gen 2

delimiter *string-not-all-spaces*

Synopsis	Delimiter to combine primary and secondary pool names
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* pool-selection use-pool-from-client delimiter *string-not-all-spaces*
Tree	delimiter
Description	This command configures a single ASCII character that separates the pool names in DHCP vendor-specific option 82, which identifies the address pool to be used for this client.
String length	1
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

user-db *reference*

Synopsis	Local user database for authentication
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* user-db *reference*
Tree	user-db
Reference	**configure** subscriber-mgmt local-user-db *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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user-identification *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	User identification method for the DHCP server
Context	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item* user-identification *keyword*
Tree	user-identification
Options	mac-circuit-id, client-id, mac, circuit-id, remote-id
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv6 [name] *named-item*

Synopsis	Enter the **dhcpv6** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	DHCP server name
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item*
Tree	dhcpv6
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP server

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Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-provisioned *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Auto-provision the pools of this server
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* auto-provisioned *boolean*
Tree	auto-provisioned
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

defaults

Synopsis	Enter the **defaults** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults
Tree	defaults
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options
Tree	options
Introduced	25.3.R2

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Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send as identification string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)*
Tree	option
Range	1 to 65535
Options	dns-server, domain-name
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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domain-string *string*

Synopsis	DHCP option specified as a domain name
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* domain-string *string*
Tree	domain-string
String length	1 to 127
String format	'domain-string' must be a DNS-style label sequence (RFC 1035)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-address *ipv6-address*

Synopsis	DHCP option specified as a list of IPv6 addresses
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults options option *(number | keyword)* ipv6-address *ipv6-address*
Tree	ipv6-address
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

preferred-lifetime *number*

Synopsis	Time this lease remains preferred
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults preferred-lifetime *number*
Tree	preferred-lifetime
Description	This command configures the preferred lifetime of the IPv6 lease address or prefix. When the preferred lifetime expires, any derived addresses are deprecated. The preferred lifetime must be less than or equal to the valid lifetime. Each address or prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server,

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RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address/prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).

Range	300 to 315446399
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

rebind-time *number*

Synopsis	Rebind time for the lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults rebind-time *number*
Tree	rebind-time
Description	This command configures the rebind time, known as T2, at which the client contacts the addressing authority to extend the lifetimes of its leases. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew or reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses or prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured rebind timer value should always be less than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 1209600
Units	seconds
Default	2880
Introduced	25.3.R2
Platforms	SAR Gen 2

renew-time *number*

Synopsis	Renew time for the lease

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Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults renew-time *number*
Tree	renew-time
Description	This command configures the renew time, known as T1, at which the client makes a transition to the lease-renewal state. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew/reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses/prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured renew timer value should always be shorter than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 604800
Units	seconds
Default	1800
Introduced	25.3.R2
Platforms	SAR Gen 2

valid-lifetime *number*

Synopsis	Time for the lease to remain valid
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* defaults valid-lifetime *number*
Tree	valid-lifetime
Description	This command configures a valid lifetime for a DHCPv6 lease address or prefix. The valid lifetime is the length of time an address and prefix remains in the valid state. The valid lifetime must be greater than or equal to the preferred lifetime. When the valid lifetime expires, the address and prefix becomes invalid and must not be used in communications. RFC 2461 recommends a default value of 30 days. Each address and prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address and prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).
Range	300 to 315446399

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Units	seconds
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

failover

Synopsis	Enter the **failover** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover
Tree	failover
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

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partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds
Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover peer *reference*
Tree	peer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover peer *reference*

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Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* failover startup-wait-time *number*
Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds

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Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-rapid-commit *boolean*

Synopsis	Ignore Rapid Commit option
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* ignore-rapid-commit *boolean*
Tree	ignore-rapid-commit
Description	When configured to **true**, the server ignores the Rapid Commit option sent by the client and uses the regular message exchange.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-id-mapping *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Map hosts within interface-to-prefix combinations
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* interface-id-mapping *boolean*
Tree	interface-id-mapping
Description	When configured to **true**, this command specifies an interface-mapping method that uses a combination of unique /64 prefixes and interface IDs. A /64 prefix is allocated to each interface ID, and all clients with the same interface ID are assigned an address from the prefix. This method is used for bridging clients in the same local loop and SAP, so that sharing the prefix allows communication to stay local. For SLAAC-based assignment, downstream neighbor discovery is automatically enabled to resolve the assigned address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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lease-hold

Synopsis	Enter the **lease-hold** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-hold
Tree	lease-hold
Introduced	25.3.R2
Platforms	SAR Gen 2

additional-scenarios

Synopsis	Enter the **additional-scenarios** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios
Tree	additional-scenarios
Description	Commands in this context configure additional types of leases or triggers that cause the system to hold up leases.
Introduced	25.3.R2
Platforms	SAR Gen 2

fwa-address-assignment *boolean*

Synopsis	Apply lease hold timer to FWA session
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios fwa-address-assignment *boolean*
Tree	fwa-address-assignment
Description	When configured to **true**, the router applies the lease hold timer to non-deferred IP addresses or SLAAC prefixes assigned to FWA sessions.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

internal-lease-ipsec *boolean*

Synopsis	Apply the lease hold timer to local IPsec clients
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios internal-lease-ipsec *boolean*

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Tree	internal-lease-ipsec
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

solicited-release *boolean*

Synopsis	Apply lease hold timer for solicited releases
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-hold additional-scenarios solicited-release *boolean*
Tree	solicited-release
Description	This command enables the server to hold up a lease even for a solicited release, for example, when the server receives a normal DHCP release message.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Lease hold time
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-hold time *number*
Tree	time
Range	1 to 631152000
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-query *boolean*

Synopsis	Handle and reply to lease query messages
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* lease-query *boolean*
Tree	lease-query
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

pool [pool-name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item*
Tree	pool
Introduced	25.3.R2
Platforms	SAR Gen 2

[**pool-name**] *named-item*

Synopsis	DHCP server pool name
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

delegated-prefix

Synopsis	Enter the **delegated-prefix** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix
Tree	delegated-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

length *number*

Synopsis	Prefix length for pool if unspecified by client
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix length *number*
Tree	length

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Range	48 to 127
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum *number*

Synopsis	Maximum delegated prefix length for this pool
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix maximum *number*
Tree	maximum
Range	48 to 127
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum *number*

Synopsis	Minimum delegated prefix length for this pool
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* delegated-prefix minimum *number*
Tree	minimum
Range	48 to 127
Default	48
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

exclude-prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Add a list entry for **exclude-prefix**
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* exclude-prefix *ipv6-prefix*
Tree	exclude-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix to be excluded from available pool prefixes
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* exclude-prefix *ipv6-prefix*
Tree	exclude-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

failover

Synopsis	Enter the **failover** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover
Tree	failover
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the failover mechanism
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-mclt-on-takeover *boolean*

Synopsis	Ignore maximum client lead during takeover from partner
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover ignore-mclt-on-takeover *boolean*
Tree	ignore-mclt-on-takeover
Description	When configured to **true**, the remote IP address range can be taken over immediately when the intercommunication link enters the PARTNER-DOWN state, without having to wait for the MCLT to expire. When configured to **false**, the DHCP lease time for new clients is restricted to the MCLT during a failure. For existing clients, the lease time is gradually reduced over time to the MCLT by consecutive DHCP renewals.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-client-lead-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum time that DHCP server can extend client's lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover maximum-client-lead-time *number*
Tree	maximum-client-lead-time
Description	This command configures the maximum client lead time (MCLT), which is the maximum time that a DHCP server can extend the client's lease time beyond the lease time currently known by the DHCP partner node. In dual-homed environments, the initial lease time for all DHCP clients is restricted to the MCLT by default. Consecutive DHCP renewals can extend the lease time beyond the MCLT.
Range	600 to 86399
Units	seconds

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Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

partner-down-delay *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delay to prevent lease duplication during link failure
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover partner-down-delay *number*
Tree	partner-down-delay
Description	This command configures the interval before a failed intercommunication link transitions from the COMM-INT state to the PARTNER-DOWN state. This delay prevents IP lease duplication during link failure by not allowing new IP addresses to be assigned from the remote IP address range. This timer is intended to provide the operator with enough time to remedy the failed situation and avoid duplication of IP addresses and prefixes during the failure.
Range	0 to 86399
Units	seconds
Default	86399
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**address**] *reference*

Synopsis	IP address of the failover peer
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

sync-tag *named-item*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag that identifies synchronizing server or pool pairs
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover peer *reference* sync-tag *named-item*
Tree	sync-tag
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-wait-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time between initialization and assuming active role
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* failover startup-wait-time *number*

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Tree	startup-wait-time
Description	This command configures a delay that avoids transient issues during the initialization process. During startup wait time, each failover peer waits after the initialization process before assuming the active role for the prefix designated as local or remote.
Range	60 to 3600
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send as identification string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)*
Tree	option
Range	1 to 65535
Options	dns-server, domain-name

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-string *string*

Synopsis	DHCP option specified as a domain name
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* domain-string *string*
Tree	domain-string
String length	1 to 127
String format	'domain-string' must be a DNS-style label sequence (RFC 1035)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duration *number*

Synopsis	DHCP option specified as time
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* duration *number*
Tree	duration

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Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-address *ipv6-address*

Synopsis	DHCP option specified as a list of IPv6 addresses
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* options option *(number | keyword)* ipv6-address *ipv6-address*
Tree	ipv6-address

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Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Enter the **prefix** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix*
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 prefix to be excluded from available pool prefixes
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drain *boolean*

Synopsis	No new leases can be assigned
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* drain *boolean*
Tree	drain
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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failover-control-type *keyword*

WARNING:
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Synopsis	Failover control type for this range
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* failover-control-type *keyword*
Tree	failover-control-type
Options	local, remote, access-driven
Default	local
Introduced	25.3.R2
Platforms	SAR Gen 2

options

Synopsis	Enter the **options** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options
Tree	options
Introduced	25.3.R2
Platforms	SAR Gen 2

option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send as identification string

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Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)*
Tree	option
Range	1 to 65535
Options	dns-server, domain-name
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

domain-string *string*

Synopsis	DHCP option specified as a domain name
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* domain-string *string*
Tree	domain-string
String length	1 to 127
String format	'domain-string' must be a DNS-style label sequence (RFC 1035)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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duration *number*

Synopsis	DHCP option specified as time
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Empty DHCP option
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv6-address *ipv6-address*

Synopsis	DHCP option specified as a list of IPv6 addresses
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* options option *(number | keyword)* ipv6-address *ipv6-address*
Tree	ipv6-address
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **domain-string**, **duration**, **empty**, **hex-string**, or **ipv6-address**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

preferred-lifetime *number*

Synopsis	Time this lease remains preferred
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* preferred-lifetime *number*
Tree	preferred-lifetime
Description	This command configures the preferred lifetime of the IPv6 lease address or prefix. When the preferred lifetime expires, any derived addresses are deprecated. The preferred lifetime must be less than or equal to the valid lifetime. Each address or prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address/prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).
Range	300 to 315446399
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-length-threshold [prefix-length] *number*

Synopsis	Enter the **prefix-length-threshold** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number*
Tree	prefix-length-threshold
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-length**] *number*

Synopsis	Delegated prefix length for pool thresholds
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number*
Tree	prefix-length-threshold
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

absolute *number*

Synopsis	Minimum number of free prefixes for this prefix length
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number* absolute *number*
Tree	absolute
Range	1 to 4294967295
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event-when-depleted *boolean*

Synopsis	Generate a notification when this pool is depleted

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Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number* event-when-depleted *boolean*
Tree	event-when-depleted
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

percent *number*

Synopsis	Minimum percentage of free prefixes for prefix length
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-length-threshold *number* percent *number*
Tree	percent
Range	1 to 100
Notes	The following elements are part of a choice: **absolute** or **percent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-type

Synopsis	Enter the **prefix-type** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-type
Tree	prefix-type
Introduced	25.3.R2
Platforms	SAR Gen 2

pd *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Allocate IA-PD prefixes from this prefix pool
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-type pd *boolean*
Tree	pd

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

wan-host *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Allocate IA-NA or SLAAC prefixes from this prefix pool
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* prefix-type wan-host *boolean*
Tree	wan-host
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rebind-time *number*

Synopsis	Rebind time for the lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* rebind-time *number*
Tree	rebind-time
Description	This command configures the rebind time, known as T2, at which the client contacts the addressing authority to extend the lifetimes of its leases. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew or reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses or prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured rebind timer value should always be less than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 1209600
Units	seconds

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Default	2880
Introduced	25.3.R2
Platforms	SAR Gen 2

renew-time *number*

Synopsis	Renew time for the lease
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* renew-time *number*
Tree	renew-time
Description	This command configures the renew time, known as T1, at which the client makes a transition to the lease-renewal state. The IP addressing authority (such as the DHCP server, RADIUS, or ESM) controls the time for extending lifetimes on assigned addresses/prefixes through the T1 and T2 parameters assigned to an identity association (IA). At renew time, T1, the client initiates a renew/reply message exchange to extend the lifetimes of any addresses in the IA. The client includes an IA option with all addresses/prefixes currently assigned to the IA in its renew message. Recommended values for T1 and T2 are 0.5 and 0.8 times the shortest preferred lifetime of the addresses or prefixes in the IA that the addressing authority is willing to extend, respectively. The configured renew timer value should always be shorter than or equal to the rebind timer. The T1 and T2 values are carried in the IPV6 address option in the IA.
Range	0 to 604800
Units	seconds
Default	1800
Introduced	25.3.R2
Platforms	SAR Gen 2

valid-lifetime *number*

Synopsis	Time for the lease to remain valid
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix *ipv6-prefix* valid-lifetime *number*
Tree	valid-lifetime
Description	This command configures a valid lifetime for a DHCPv6 lease address or prefix. The valid lifetime is the length of time an address and prefix remains in the valid state. The valid lifetime must be greater than or equal to the preferred lifetime. When the valid lifetime expires, the address and prefix becomes invalid and must not be used in communications. RFC 2461 recommends a default value of 30 days.

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Each address and prefix assigned to the client has associated preferred and valid lifetimes specified by the address assignment authority (such as the DHCP server, RADIUS, or ESM). To request an extension of the lifetimes assigned to an address, the client sends a renew message to the addressing authority. The authority sends a reply message to the client with the new lifetimes, allowing the client to continue to use the address and prefix without interruption. The lifetimes are transmitted from the addressing authority to the client in the identity association (IA) option at the top level of the message (not the address or prefix level).

Range	300 to 315446399
Units	seconds
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length-threshold [prefix-length] *number*

Synopsis	Enter the **prefix-length-threshold** list instance
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number*
Tree	prefix-length-threshold
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**prefix-length**] *number*

Synopsis	Delegated prefix length for pool thresholds
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number*
Tree	prefix-length-threshold
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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event-when-depleted *boolean*

Synopsis	Generate a notification when this pool is depleted
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number* event-when-depleted *boolean*
Tree	event-when-depleted
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-free-percent *number*

Synopsis	Percentage of free prefixes for this prefix length
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool *named-item* prefix-length-threshold *number* minimum-free-percent *number*
Tree	minimum-free-percent
Range	0 to 100
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-selection

Synopsis	Enter the **pool-selection** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool-selection
Tree	pool-selection
Introduced	25.3.R2
Platforms	SAR Gen 2

use-link-address

Synopsis	Enable the **use-link-address** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool-selection use-link-address
Tree	use-link-address

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Description	This command configures the local pool selection for DHCPv6 address or prefix assignment to use the link address. When configured, the selected pool contains a prefix covering the link address.
Introduced	25.3.R2
Platforms	SAR Gen 2

scope *keyword*

Synopsis	Scope of the IP address selection
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool-selection use-link-address scope *keyword*
Tree	scope
Options	subnet, pool
Default	subnet
Introduced	25.3.R2
Platforms	SAR Gen 2

use-pool-from-client

Synopsis	Enable the **use-pool-from-client** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool-selection use-pool-from-client
Tree	use-pool-from-client
Introduced	25.3.R2
Platforms	SAR Gen 2

delimiter *string-not-all-spaces*

Synopsis	Delimiter to combine primary and secondary pool names
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* pool-selection use-pool-from-client delimiter *string-not-all-spaces*
Tree	delimiter
Description	This command configures a single ASCII character that separates the pool names in DHCP vendor-specific option 82, which identifies the address pool to be used for this client.
String length	1
String format	'string-not-all-spaces' must contain at least one non-space character

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Introduced	25.3.R2
Platforms	SAR Gen 2

server-id

Synopsis	Enter the **server-id** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* server-id
Tree	server-id
Introduced	25.3.R2
Platforms	SAR Gen 2

duid-enterprise

Synopsis	Enter the **duid-enterprise** context
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* server-id duid-enterprise
Tree	duid-enterprise
Notes	The following elements are part of a choice: **duid-enterprise** or **duid-link-local**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DUID enterprise server ID specified as an ASCII string
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* server-id duid-enterprise ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 58
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DUID enterprise server ID specified as a hex string

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Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* server-id duid-enterprise hex-string *hex-string*
Tree	hex-string
String length	1 to 118
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duid-link-local

Synopsis	Derive DUID server ID from a system link-layer address
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* server-id duid-link-local
Tree	duid-link-local
Notes	The following elements are part of a choice: **duid-enterprise** or **duid-link-local**.
Introduced	25.3.R2
Platforms	SAR Gen 2

user-db *reference*

Synopsis	Local user database to lookup DHCP lease data
Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* user-db *reference*
Tree	user-db
Reference	**configure** subscriber-mgmt local-user-db *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

user-identification *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	User identification method for the DHCP server

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Context	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item* user-identification *keyword*
Tree	user-identification
Options	duid, interface-id, interface-id-link-local
Introduced	25.3.R2
Platforms	SAR Gen 2

dns

Synopsis	Enable the **dns** context
Context	**configure** service vprn *service-name* dns
Tree	dns
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DNS
Context	**configure** service vprn *service-name* dns admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

default-domain *fully-qualified-domain-name*

Synopsis	Domain name added in DNS retries
Context	**configure** service vprn *service-name* dns default-domain *fully-qualified-domain-name*
Tree	default-domain
Description	This command configures the DNS domain name to be added in DNS retries when a DNS query is not replied or an empty DNS reply is received. The name can contain only alphabetical characters (A-Z), numeric characters (0-9), the minus sign (-), and the period (.).
String length	1 to 255
String format	'default-domain' must be lowercase letters, digits, hyphen, dot (DNS label form)

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-source-address *(keyword | ipv4-unicast-address)*

Synopsis	Source address to contact an IPv4 DNS server
Context	**configure** service vprn *service-name* dns ipv4-source-address *(keyword | ipv4-unicast-address)*
Tree	ipv4-source-address
Options	use-interface-ip
Default	use-interface-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-source-address *(keyword | ipv6-unicast-address)*

Synopsis	Source address to contact an IPv6 DNS server
Context	**configure** service vprn *service-name* dns ipv6-source-address *(keyword | ipv6-unicast-address)*
Tree	ipv6-source-address
Options	use-interface-ip
Default	use-interface-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

server *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	DNS server used for DNS name resolution
Context	**configure** service vprn *service-name* dns server *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	server
Max. instances	3
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ecmp *number*

Synopsis	Maximum equal-cost routes for routing table instance
Context	**configure** service vprn *service-name* ecmp *number*
Tree	ecmp
Description	This command configures ECMP and defines the number of routes for path sharing. ECMP can be used only for routes learned with the same preference and the same protocol. If available ECMP routes at the best preference exceed the maximum ECMP routes allowed, the system selects the route using the following criteria: **1.** The system selects the lowest next hop router ID. **2.** If the next hop goes to the same neighbor, the system selects the next hop with the lowest interface index.
Range	1 to 128
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

ecmp-unequal-cost *boolean*

Synopsis	Enable ECMP unequal cost capability
Context	**configure** service vprn *service-name* ecmp-unequal-cost *boolean*
Tree	ecmp-unequal-cost
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label *boolean*

Synopsis	Use entropy label
Context	**configure** service vprn *service-name* entropy-label *boolean*
Tree	entropy-label
Description	When configured to **true**, this command enables the use of entropy labels. The entropy label and indicator (EL/ELI) are inserted on relevant packets. Applicable packets are those for which at least one LSP in the stack at the far end has advertised the entropy-label capability. These LSPs are in LDP or RSVP tunnels used by an IGP

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or BGP shortcut. If the tunnel is of type RSVP, the entropy-label capability must also be enabled under the **configure router mpls** or **configure router mpls lsp** context.

This command also results in other traffic that is forwarded over an LDP or RSVP LSP for which this router is the LER, and for which there is no explicit service endpoint on this router, to have the EL/ELI enabled, subject to the LSP far-end advertising entropy-label-capability. An example of such traffic includes packets arriving on a stitched LDP LSP forwarded over an RSVP LSP.

The entropy label and the hash label features are mutually exclusive. The entropy label cannot be configured on a spoke SDP or service where the hash label feature has already been configured.

When configured to **false**, the use of entropy labels is disabled.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

evpn-neighbor-synchronization

Synopsis Enable the **evpn-neighbor-synchronization** context

Context **configure** service vprn *service-name* evpn-neighbor-synchronization

Tree evpn-neighbor-synchronization

Introduced 26.3.R1

Platforms SAR Gen 2

admin-state *keyword*

Synopsis Administrative state of EVPN synchronization

Context **configure** service vprn *service-name* evpn-neighbor-synchronization admin-state *keyword*

Tree admin-state

Description This command configures local **static** and **dynamic** ARP and ND entries to be advertised using an EVPN MAC/IP advertisement route. On reception of those routes, ARP and ND entries are created on the routing context and interface identified by the EVI route target and the ESI.

When unconfigured, local **static** and **dynamic** ARP and ND entries are not advertised.

Options enable, disable

Default disable

Introduced 26.3.R1

Platforms SAR Gen 2

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evi-route-target *evi-route-target*

WARNING:
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Synopsis	EVI route target to use for EVPN neighbor synchronization
Context	**configure** service vprn *service-name* evpn-neighbor-synchronization evi-route-target *evi-route-target*
Tree	evi-route-target
Description	This command configures the EVI route target used on the MAC/IP routes advertised for the routing context. On reception, the EVI route target is used to identify the routing context in which the ARP and ND entries are installed.
String length	10 to 28
String format	'evi-route-target-32' must be evi-target:(IPv4:comm|AS pairs|IEEE MAC) per ext-community rules
Introduced	26.3.R1
Platforms	SAR Gen 2

retention-timer *number*

Synopsis	Time that an EVPN ARP or ND entry is retained
Context	**configure** service vprn *service-name* evpn-neighbor-synchronization retention-timer *number*
Tree	retention-timer
Description	This command sets the timer that determines how long an EVPN ARP or ND entry is retained after the remote PE withdraws the MAC/IP route that originated it. The behavior for a synchronized ARP and ND entry is as follows: **1.** When the originating EVPN MAC/IP route is withdrawn, the retention timer starts, and the entry remains present until the timer expires. **2.** While the retention timer is active, the system attempts to refresh the entry by sending an ARP Request or Neighbor Solicitation to the IP owner. This refresh may occur at any point from the start of the timer until 30 seconds before it expires. **3.** ARP Requests and Neighbor Solicitations are staggered within the timeout period to prevent overloading the CPM transmitter when many entries require refreshing.
Range	1 to 65535
Units	seconds
Introduced	26.3.R1
Platforms	SAR Gen 2

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route-distinguisher *vpn-route-distinguisher*

WARNING:
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Synopsis	Route distinguisher used for synchronization
Context	**configure** service vprn *service-name* evpn-neighbor-synchronization route-distinguisher *vpn-route-distinguisher*
Tree	route-distinguisher
Description	This command configures the route distinguisher of the MAC/IP routes used for synchronization.
String format	'vpn-route-distinguisher' must be IP:comm or AS-number pair per RD rules
Introduced	26.3.R1
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	BGP route tag for MAC/IP routes synchronization
Context	**configure** service vprn *service-name* evpn-neighbor-synchronization route-tag *number*
Tree	route-tag
Description	This command applies the BGP route tag to MAC/IP routes generated from local ARP and ND entries. This tag can be matched by any export policy.
Range	1 to 255
Introduced	26.3.R1
Platforms	SAR Gen 2

export-inactive-bgp *boolean*

Synopsis	Export preferred BGP route even if inactive
Context	**configure** service vprn *service-name* export-inactive-bgp *boolean*
Tree	export-inactive-bgp
Description	When configured to **true**, the preferred BGP route learned by a VPRN is exported as the VPN-IP route even if it is inactive in the route table because a preferred BGP

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VPRN route from another PE is present. This overrides the default state in which the VPRN cannot export an inactive BGP route. For the BGP route to be exported, the VRF export policy must accept it. This command applies to both MPLS VPN and SRv6 VPN routes. In SRv6 VPN routes the advertised instruction is an End.DT, while in MPLS VPN routes the advertised label is a per-next-hop label.This “best-external” type of route advertisement is useful in active/standby multi-homing scenarios because it ensures that all PEs know about the backup path provided by the standby PE.

When configured to **false**, the preferred BGP route is not exported if it is inactive.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

export-inactive-bgp-enhanced *boolean*

Synopsis Export best BGP route when better non-BGP route present

Context **configure** service vprn *service-name* export-inactive-bgp-enhanced *boolean*

Tree export-inactive-bgp-enhanced

Description When configured to **true**, the router allows a BGP route that is inactive (because a better non-BGP route for the same prefix is present) to be exportable as a VPN-IP route.

A BGP route learned from a VPRN BGP peer is exportable as a VPN-IP route, only if it is the best route for the prefix and is installed in the route table of the VPRN. If the **export-inactive-bgp** command is **true** in the VPRN configuration, this rule is relaxed, and the best inactive VPRN BGP route is exportable as a VPN-IP route, provided that the active installed route for the prefix is an imported VPN-IP route.

The rule described in the preceding paragraph can be relaxed even further by configuring this command to **true**. When this command is **true**, the best inactive VPRN BGP route (best amongst all routes received from all CEs) is exportable as a VPN-IP route, regardless of the route type of the active installed route.

The configuration of this command overrides the **export-inactive-bgp** command. If this command is **true**, the **export-inactive-bgp** command does not need to be **true**.

When configured to **false**, the router disables allowing an inactive BGP route in the presence of a better non-BGP route to be exportable as a VPN-IP route.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

fib-priority *keyword*

Synopsis FIB priority for VPRN BGP routes

Context **configure** service vprn *service-name* fib-priority *keyword*

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Tree	fib-priority
Description	This command prioritizes the order in which BGP FIB entries across different routing instances are pushed to the IOM for updating. This allows BGP route updates for higher priority router instances to occur as quickly as possible by assigning a FIB priority to the associated router instances (base and VPRN instances). If routing updates are available for multiple router instances, the IOMs or IMMs update the FIB with entries with **high** priority router instances before entries with **standard** priority router instances.
Options	standard – Standard FIB priority for routing instances high – High FIB priority for routing instances
Default	standard
Introduced	25.3.R2
Platforms	SAR Gen 2

grt-leaking

Synopsis	Enter the **grt-leaking** context
Context	**configure** service vprn *service-name* grt-leaking
Tree	grt-leaking
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-local-management *boolean*

Synopsis	Enable management traffic
Context	**configure** service vprn *service-name* grt-leaking allow-local-management *boolean*
Tree	allow-local-management
Description	When configured to **true**, this command enables the support of specific management protocols over VPRN interfaces that terminate on Base routing context IPv4 and IPv6 interface addresses, including Base loopback and system addresses. This command does not control the support for management protocols terminating on VPRN interfaces directly.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-grt

Synopsis	Enter the **export-grt** context
Context	**configure** service vprn *service-name* grt-leaking export-grt
Tree	export-grt
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *(policy-expr-string | string)*

Synopsis	Route policy name or policy logical expression
Context	**configure** service vprn *service-name* grt-leaking export-grt policy-name *(policy-expr-string | string)*
Tree	policy-name
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit *number*

Synopsis	Maximum number of routes exported from VRF to GRT
Context	**configure** service vprn *service-name* grt-leaking export-limit *number*
Tree	export-limit
Range	0 to 1000
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

export-v6-limit *number*

Synopsis	Maximum number of IPv6 routes exported from VPRN to GRT

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Context	**configure** service vprn *service-name* grt-leaking export-v6-limit *number*
Tree	export-v6-limit
Range	0 to 1000
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

grt-lookup *boolean*

Synopsis	Enable global route table lookup
Context	**configure** service vprn *service-name* grt-leaking grt-lookup *boolean*
Tree	grt-lookup
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-grt

Synopsis	Enter the **import-grt** context
Context	**configure** service vprn *service-name* grt-leaking import-grt
Tree	import-grt
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *(policy-expr-string | string)*

Synopsis	Route policy name or policy logical expression
Context	**configure** service vprn *service-name* grt-leaking import-grt policy-name *(policy-expr-string | string)*
Tree	policy-name
String length	1 to 255
String format	'policy-expr-string' must contain [for a bracketed policy name in a routing policy logical expression (e.g. [policyA])
Max. instances	5
Notes	This element is ordered by the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

hash-label *boolean*

Synopsis	Include hash label
Context	**configure** service vprn *service-name* hash-label *boolean*
Tree	hash-label
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

igmp

Synopsis	Enable the **igmp** context
Context	**configure** service vprn *service-name* igmp
Tree	igmp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IGMP
Context	**configure** service vprn *service-name* igmp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-if-query-source-address *ipv4-unicast-address*

Synopsis	Default query-source address for all group interfaces
Context	**configure** service vprn *service-name* igmp group-if-query-source-address *ipv4-unicast-address*

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Tree	group-if-query-source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* igmp interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* igmp interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IGMP
Context	**configure** service vprn *service-name* igmp interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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import-policy *reference*

Synopsis	Import policy that filters IGMP packets
Context	**configure** service vprn *service-name* igmp interface *interface-name* import-policy *reference*
Tree	import-policy
Description	This command configures the IGMP import policy, or filter, for an interface subscriber or a group interface. An IGMP filter is also known as a black or white list, and it is defined as a router policy option. When redirection is applied, only the import policy from the subscriber is in effect. The import policy under the group interface is applicable only for IGMP states received directly on the SAP (AN in IGMP proxy mode).
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-group-sources *number*

Synopsis	Maximum number of group sources for this interface
Context	**configure** service vprn *service-name* igmp interface *interface-name* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Description	This command configures the maximum number of group sources for which IGMP or MLD can have local receiver information based on received IGMP or MLD reports on this interface. When this configuration is changed dynamically to a lower value than the currently accepted number of group sources, the group sources that are already accepted are not deleted. Only new group sources are not allowed.
Range	1 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum number of groups for this interface
Context	**configure** service vprn *service-name* igmp interface *interface-name* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000

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Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum number of sources that are allowed per group
Context	**configure** service vprn *service-name* igmp interface *interface-name* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vprn *service-name* igmp interface *interface-name* query-interval *number*
Tree	query-interval
Range	2 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vprn *service-name* igmp interface *interface-name* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages

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Context	**configure** service vprn *service-name* igmp interface *interface-name* query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

redundant-mcast *boolean*

Synopsis	Use interface as a redundant-pair member for multicast
Context	**configure** service vprn *service-name* igmp interface *interface-name* redundant-mcast *boolean*
Tree	redundant-mcast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable router alert checking for IGMP or MLD messages
Context	**configure** service vprn *service-name* igmp interface *interface-name* router-alert-check *boolean*
Tree	router-alert-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** service vprn *service-name* igmp interface *interface-name* ssm-translate
Tree	ssm-translate
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-range start *ipv4-multicast-address* end *ipv4-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** service vprn *service-name* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv4-multicast-address*

Synopsis	Lower bound of the IP address group range
Context	**configure** service vprn *service-name* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-multicast-address*

Synopsis	Upper bound of the IP address group range
Context	**configure** service vprn *service-name* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vprn *service-name* igmp interface *interface-name* ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vprn *service-name* igmp interface *interface-name* static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-address] *ipv4-multicast-address*

Synopsis	Enter the **group** list instance

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Context	**configure** service vprn *service-name* igmp interface *interface-name* static group *ipv4-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-address**] *ipv4-multicast-address*

Synopsis	Group address of static IGMP multicast channel
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group *ipv4-multicast-address*
Tree	group
Description	This command configures an address that receives data on an interface. The IP address must be unique for each static group.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group *ipv4-multicast-address* source *ipv4-unicast-address*

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Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group *ipv4-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv4-multicast-address*

Synopsis	IP address for the start of the static group range
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-multicast-address*

Synopsis	IP address for the end of the static group range
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

step *ipv4-address*

Synopsis	Step interval in the group-range address
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address*
Tree	group-range
MD-CLI default	0.0.0.1
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address* source *ipv4-unicast-address*
Tree	source

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Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vprn *service-name* igmp interface *interface-name* static group-range start *ipv4-multicast-address* end *ipv4-multicast-address* step *ipv4-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subnet-check *boolean*

Synopsis	Allow subnet checking
Context	**configure** service vprn *service-name* igmp interface *interface-name* subnet-check *boolean*
Tree	subnet-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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version *keyword*

Synopsis	IGMP protocol version
Context	**configure** service vprn *service-name* igmp interface *interface-name* version *keyword*
Tree	version
Options	1, 2, 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vprn *service-name* igmp query-interval *number*
Tree	query-interval
Description	This command configures the timing of the host-query messages that solicit group membership information. The messages are sent to the all-systems multicast group address, 224.0.0.1.
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vprn *service-name* igmp query-last-member-interval *number*
Tree	query-last-member-interval
Description	This command configures the timing of the query-message interval, defining the interval for leave-group messages among others. The lower the interval that is configured, the faster the detection of the loss of the last member of a group.
Range	1 to 1023
Units	seconds
Default	1

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Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vprn *service-name* igmp query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vprn *service-name* igmp robust-count *number*
Tree	robust-count
Description	This command configures the level of expected packet loss on a subnet. If a subnet anticipates losses, this value can be increased.
Range	2 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** service vprn *service-name* igmp ssm-translate
Tree	ssm-translate
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-range start *ipv4-multicast-address* end *ipv4-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** service vprn *service-name* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv4-multicast-address*

Synopsis	Lower bound of the IP address group range
Context	**configure** service vprn *service-name* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-multicast-address*

Synopsis	Upper bound of the IP address group range
Context	**configure** service vprn *service-name* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address*
Tree	group-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id) 'ipv4-multicast-address' must be in 224.0.0.0-239.255.255.255 range with valid dotted-quad form
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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source [source-address] *ipv4-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv4-unicast-address*

Synopsis	Source IP address of multicast channel sending data
Context	**configure** service vprn *service-name* igmp ssm-translate group-range start *ipv4-multicast-address* end *ipv4-multicast-address* source *ipv4-unicast-address*
Tree	source
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-nh-metric *boolean*

Synopsis	Ignore next hop metric
Context	**configure** service vprn *service-name* ignore-nh-metric *boolean*
Tree	ignore-nh-metric
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* interface *interface-name*

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Tree	interface
Description	Commands inthis context configure the interface options.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	**configure** service vprn *service-name* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the interface
Context	**configure** service vprn *service-name* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

autoconfigure

Synopsis	Enter the **autoconfigure** context
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure
Tree	autoconfigure
Description	Commands in this context configure the autoconfigure functionality for the interface.
Introduced	25.7.R1
Platforms	SAR Gen 2

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ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4
Tree	ipv4
Description	Commands in this context configure IPv4 autoconfigure settings.
Introduced	25.7.R1
Platforms	SAR Gen 2

dhcp-client

Synopsis	Enable the **dhcp-client** context
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client
Tree	dhcp-client
Description	Commands in this context configure the node as an IPv4 DHCP client. When the node operates as a DHCP client, it learns the IP address of the interface via dynamic IP address assignment.
Introduced	25.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP client
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.7.R1
Platforms	SAR Gen 2

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class-id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **class-id** context
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client class-id
Tree	class-id
Description	Commands in this context configure the vendor class ID for the DHCP client.
Introduced	25.7.R1
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Vendor class ID as an ASCII string
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client class-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.7.R1
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Vendor class ID as a hexadecimal string
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client class-id hex-string *hex-string*

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Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.7.R1
Platforms	SAR Gen 2

client-id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **client-id** context
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id
Tree	client-id
Description	Commands in this context configure the client ID for the DHCP client.
Introduced	25.7.R1
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client ID as an ASCII string
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

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hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client ID as a hexadecimal string
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

interface

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interface name as the client ID
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id interface
Tree	interface
Description	This command configures the node to use the interface name as the client ID.
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

mac

WARNING:
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Synopsis	MAC address as the client ID

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Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client client-id mac
Tree	mac
Description	This command configures the node to use the MAC address as the client ID.
Notes	The following elements are part of a choice: **ascii-string**, **hex-string**, **interface**, or **mac**.
Introduced	25.7.R1
Platforms	SAR Gen 2

lease-time *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Lease time the DHCP client requests
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client lease-time *(number | keyword)*
Tree	lease-time
Description	This command configures the lease time that the DHCP client requests to the DHCP server. The DHCP server can override the configured value.
Range	10 to 315446399
Units	seconds
Options	infinite – Request an infinite lease with no expiry
Default	86400
Introduced	25.7.R1
Platforms	SAR Gen 2

request-options

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **request-options** context
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options
Tree	request-options

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Description	Commands in this context configure the DHCP options to include in the parameter request list as part of the DHCPREQUEST message to the server.
Introduced	25.7.R1
Platforms	SAR Gen 2

dns-server *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the DNS server option
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options dns-server *boolean*
Tree	dns-server
Description	When configured to **true**, the node includes the DNS server option (Option 54) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

router *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the router option
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options router *boolean*
Tree	router
Description	When configured to **true**, the node includes the router option (Option 3) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

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static-route *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Include the static route option
Context	**configure** service vprn *service-name* interface *interface-name* autoconfigure ipv4 dhcp-client request-options static-route *boolean*
Tree	static-route
Description	When configured to **true**, the node includes the static route option (Option 121) in the DHCPREQUEST message to the server.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-tunnel-redundant-nexthop *ipv4-unicast-address*

Synopsis	Redundant next-hop address for the dynamic IPsec tunnel
Context	**configure** service vprn *service-name* interface *interface-name* dynamic-tunnel-redundant-nexthop *ipv4-unicast-address*
Tree	dynamic-tunnel-redundant-nexthop
Description	This command configures a redundant next-hop address on a public or private IPsec interface (with a public or private tunnel SAP) for dynamic IPsec tunnel in 1:1 MC-IPsec. A standby node uses the specified next-hop address to shunt traffic to the master in case it receives traffic destined to a tunnel endpoint address. The standby tunnel group needs to be operationally up for the feature to work.

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	The next-hop address is resolved in the routing table of a corresponding service.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **multi-chassis-shunting-profile** or (**dynamic-tunnel-redundant-nexthop** and **static-tunnel-redundant-nexthop**).
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

down

Synopsis	Enter the **down** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv4 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activating the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

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init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv4 down init-only *boolean*
Tree	init-only
Description	This command applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv4 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up

Synopsis	Enter the **up** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv4 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv4 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

down

Synopsis	Enter the **down** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv6 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv6 down init-only *boolean*
Tree	init-only

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Description	When configured to **true**, the system applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv6 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up

Synopsis	Enter the **up** context
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv6 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** service vprn *service-name* interface *interface-name* hold-time ipv6 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

if-attribute

Synopsis	Enter the **if-attribute** context
Context	**configure** service vprn *service-name* interface *interface-name* if-attribute
Tree	if-attribute
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-group *reference*

Synopsis	Administrative group name for the interface
Context	**configure** service vprn *service-name* interface *interface-name* if-attribute admin-group *reference*
Tree	admin-group
Description	This command specifies the administrative group membership to an interface. The configured administrative group membership is applied in all levels or areas the interface is participating in. The same interface cannot have different memberships in different levels or areas.
Reference	**configure** routing-options if-attribute admin-group *named-item*
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

srlg-group [name] *reference*

Synopsis	Add a list entry for **srlg-group**
Context	**configure** service vprn *service-name* interface *interface-name* if-attribute srlg-group *reference*
Tree	srlg-group
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *reference*

Synopsis	SRLG name
Context	**configure** service vprn *service-name* interface *interface-name* if-attribute srlg-group *reference*
Tree	srlg-group
Reference	**configure** routing-options if-attribute srlg-group *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vprn *service-name* interface *interface-name* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

Synopsis	IP MTU applied to outgoing packets
Context	**configure** service vprn *service-name* interface *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command configures the IP maximum transmission unit (MTU) for the associated router IP interface.
Range	512 to 9786
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-tunnel-interface *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Enable IP tunnel interface
Context	**configure** service vprn *service-name* interface *interface-name* ip-tunnel-interface *boolean*
Tree	ip-tunnel-interface
Description	When configured to **true**, the system enables a GRE virtual IP interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec

Synopsis	Enable the **ipsec** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec
Tree	ipsec
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of IPsec secured interface
Context	**configure** service vprn *service-name* interface *interface-name* ipsec admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-exception *reference*

Synopsis	IP exception filter
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ip-exception *reference*
Tree	ip-exception
Description	This command configures the IP exception filter for the secured interface. All ingress traffic matching the specified filter bypasses IPsec processing.
Reference	**configure** filter ip-exception *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-tunnel [name] *named-item*

Synopsis	Enter the **ipsec-tunnel** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item*
Tree	ipsec-tunnel
Description	Commands in this context configure IPsec tunnels used to secure traffic forwarded over the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec tunnel name
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'name' must not start with a number (e.g. tunnel-1)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the IPsec tunnel
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **bfd** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-designate *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Designate IPsec tunnel to carry BFD traffic
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-designate *boolean*
Tree	bfd-designate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness
Tree	bfd-liveness
Description	Commands in this context configure a BFD session to provide a heart-beat mechanism for a specified IPsec tunnel. There can be only one BFD session assigned to any given IPsec tunnel, but there can be multiple IPsec tunnels using the same BFD session. BFD controls the state of the association tunnel. If the BFD session goes down, the system brings down the associated non-designated IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination address used for the BFD session
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness dest-ip *ipv4-unicast-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface *interface-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the interface used by the BFD session
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* bfd bfd-liveness service-name *service-name*
Tree	service-name
Description	This command configures the name of the service where BFD traffic is forwarded to.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

WARNING:
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Synopsis	Reset the DF bit to 0 in all payload IP packets
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* clear-df-bit *boolean*
Tree	clear-df-bit
Description	When configured to **true**, the DF bit is set to 0 in all payload IP packets associated with the IPsec tunnel, before any potential fragmentation occurs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

copy-traffic-class-upon-decapsulation *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable traffic class copy upon decapsulation
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* copy-traffic-class-upon-decapsulation *boolean*
Tree	copy-traffic-class-upon-decapsulation
Description	When configured to **true**, the system copies the traffic class from the outer tunnel IP packet header to the payload IP packet header in the decapsulating direction (public to private).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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encapsulated-ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet to the IPsec tunnel, the IP tunnel, or the dynamic tunnels terminated on the IPsec Gateway. If the encapsulated IPv4 or IPv6 tunnel packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp-generation** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation
Tree	icmp-generation
Description	Commands in this context configure settings for ICMPv4 message generation.
Introduced	25.3.R2
Platforms	SAR Gen 2

frag-required

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Enter the **frag-required** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required
Tree	frag-required
Description	Commands in this context configure the attributes for sending generated ICMP Destination Unreachable "fragmentation needed and DF set" messages (type 3, code 4) back to the source, if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of sending ICMP messages
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending ICMP messages
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required interval *number*

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Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMP messages that can be sent
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp6-generation** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation
Tree	icmp6-generation
Description	Commands in this context configure settings for ICMPv6 message generation.

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Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

WARNING:
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Synopsis	Enter the **packet-too-big** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big
Tree	packet-too-big
Description	Commands in this context configure the parameters to send ICMPv6 PTB (Packet Too Big) messages on the private side. The system sends PTB messages if a received IPv6 packet on the private side is greater than 1280 bytes and it exceeds the private MTU of the tunnel. The private MTU for the tunnel is configured via the **configure router interface ipsec ipsec-tunnel ip-mtu** command for the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending Packet Too Big messages
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big interval *number*
Tree	interval
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMPv6 PTB messages that can be sent
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* icmp6-generation packet-too-big message-count *number*
Tree	message-count
Description	This command configures the maximum number of PTB messages that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private MTU of the IPsec tunnel
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* ip-mtu *number*
Tree	ip-mtu
Description	This command specifies the private MTU of the IPsec tunnel. The private MTU is used to determine the need for fragmentation before encapsulation of the payload packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

key-exchange

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **key-exchange** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange
Tree	key-exchange
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **dynamic** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic

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Tree	dynamic
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Attempt to establish a phase 1 exchange automatically
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic auto-establish *boolean*
Tree	auto-establish
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish-sustain *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Sustain the automatic establishment
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic auto-establish-sustain *boolean*
Tree	auto-establish-sustain
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

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cert

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **cert** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert
Tree	cert
Description	Commands in this context configure the attributes of the dynamic keying certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **status-verify** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify
Tree	status-verify
Description	Commands in this context configure attributes of Certificate Status Verification (CSV).
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-result *keyword*

Synopsis	Default result for Certificate Status Verification
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify default-result *keyword*
Tree	default-result
Description	This command specifies the default certificate revocation status result to use when all configured CSV methods fail to return a result.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify primary *keyword*
Tree	primary
Description	This command configures the primary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the certificate of the peer.
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert status-verify secondary *keyword*
Tree	secondary
Description	This command specifies the secondary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the peer certificate.
Options	none, crl, ocsp
Default	none

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Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **id** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id
Tree	id
Description	Commands in this context specify the local ID used for IDi or IDr for IKEv2 negotiation. The default behavior depends on the local authentication method as follows: • Psk: local tunnel IP address • Cert-auth: subject of the local certificate
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

WARNING:
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Synopsis	FQDN used as the local ID IKE type

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Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 as the local ID type
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv6 used as the local IKE ID type
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ike-policy *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IKE policy ID
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ike-policy *reference*
Tree	ike-policy
Description	This command specifies the ID of the IKE policy used for IKE negotiation. The **ipsec-transport-mode-profile** configuration only supports IKEv2.
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec transform IDs used by the dynamic key
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ipsec-transform *reference*
Tree	ipsec-transform
Description	This command specifies IPsec transform IDs used for CHILD_SA negotiation.
Reference	**configure** ipsec ipsec-transform *number*
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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ppk

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ppk** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk
Tree	ppk
Description	Commands in this context configure the PPKs to use for dynamic keying of the IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK ID
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk id *reference*
Tree	id
Reference	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

list *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK list instance name
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic ppk list *reference*

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Tree	list
Reference	**configure** ipsec ppk-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Pre-shared key for authentication
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for authentication in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

reverse-route-injection

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **reverse-route-injection** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection
Tree	reverse-route-injection
Introduced	26.7.R1
Platforms	SAR Gen 2

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metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The metric to be used for reverse route injection
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection metric *number*
Tree	metric
Range	0 to 65535
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The preference to be used for reverse route injection
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection preference *number*
Tree	preference
Range	0 to 255
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

manual

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **manual** context

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Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual
Tree	manual
Description	Commands in this context configure settings for manually configured security associations for the IPsec tunnel.
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

keys [security-association] *number* direction *keyword*

Synopsis	Enter the **keys** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Description	Commands in this context configure the security association list for the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**security-association**] *number*

Synopsis	SA entry ID
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Direction of the IPsec tunnel
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys

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Options	inbound, outbound
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the authentication algorithm
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* authentication-key *hex-string*
Tree	authentication-key
String length	1 to 130
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

encryption-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the encryption algorithm
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* encryption-key *hex-string*
Tree	encryption-key
String length	1 to 66
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-transform *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Transform entry used by manual SAs
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* ipsec-transform *reference*
Tree	ipsec-transform
Reference	**configure** ipsec ipsec-transform *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spi *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	SPI of inbound and outbound packets
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* spi *number*
Tree	spi
Description	This command specifies the Security Parameter Index (SPI) used to look up the instruction to verify and decrypt the incoming IPsec packets when the direction is inbound. When the direction is outbound, the SPI is used in the encoding of the outgoing packets. The remote node can use the SPI to look up the instruction to verify and decrypt the packet.
Range	256 to 16383
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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local-gateway-address-override *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IPsec tunnel endpoint address
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* local-gateway-address-override *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-gateway-address-override
Description	This command configures the local IPsec tunnel endpoint address. This overrides the default endpoint address, which is the interface address.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **max-history-key-records** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records
Tree	max-history-key-records
Description	Commands in this context configure the settings for recording historical IPsec keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of recent records
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records esp *number*

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Tree	esp
Range	1 to 48
Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of historical IKE key records
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

pmtu-discovery-aging *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Aging out time of the learned path MTU
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public and private MTU expiration time. The temporary MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

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private-sap *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Private SAP ID
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* private-sap *number*
Tree	private-sap
Range	0 to 4094
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

private-service *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Private service name
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* private-service *service-name*
Tree	private-service
Description	This command configures the private service name. If unconfigured, the private service is the service where the secured interface resides.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

private-tcp-mss-adjust *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) adjustment
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the TCP MSS to adjust for the tunnel on the private side. When configured, the system may use the value to update the MSS option in the received TCP SYN packet on the private side.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* propagate-pmtu-v4 *boolean*
Tree	propagate-pmtu-v4
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv4 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-pmtu-v6 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv6 hosts
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* propagate-pmtu-v6 *boolean*
Tree	propagate-pmtu-v6
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv6 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) on the public network
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command configures the MSS for the TCP traffic in an IPsec tunnel that is sent from the public network to the private network. The system may use this value to adjust or insert the MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote IPsec tunnel endpoint address
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* remote-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-gateway-address
Introduced	25.3.R2
Platforms	SAR Gen 2

replay-window *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Anti-replay window size
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* replay-window *number*
Tree	replay-window
Description	This command specifies the size of an IPsec anti-replay window. If unconfigured, IPsec anti-replay is disabled.
Range	32 | 64 | 128 | 256 | 512
Units	packets
Introduced	25.3.R2
Platforms	SAR Gen 2

security-policy

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **security-policy** context
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy

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Tree	security-policy
Description	Commands in this context specify a security policy used by the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Security policy ID for use by the tunnel
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy id *number*
Tree	id
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-match *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable strict match of the security policy entry
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipsec-tunnel *named-item* security-policy strict-match *boolean*
Tree	strict-match
Description	When configured to **true**, this command enables strict match of the security policy entry. When a CREATE_CHILD exchange request is received for a static IPsec tunnel, and this request is not a rekey request, ISA matches the received TSi and TSr with the configured security policy. This can be a match only when a received TS (in TSi or TSr) address range matches exactly with the subnet in a security policy entry. If there is no match, the setup fails, and TS_UNACCEPTABLE is sent. If there is a match, but there is an existing CHILD_SA for the matched security policy, the setup fails, and NO_PROPOSAL_CHOSEN is sent. If there is a match, and there is not a CHILD_SA for the matched entry, the subnet is sent in the matched security policy entry as TSi and TSr, and the CHILD_SA is created.

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-exception *reference*

Synopsis	IPv6 filter exception used to bypass encryption
Context	**configure** service vprn *service-name* interface *interface-name* ipsec ipv6-exception *reference*
Tree	ipv6-exception
Description	This command specifies the IPv6 filter exception for an IPsec-secured IPv6 interface. When an IPv6 filter exception is added, clear text packets that match the exception criteria in the IPv6 filter exception can ingress the interface, even when IPsec is enabled on the interface.
Reference	**configure** filter ipv6-exception *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

public-sap *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Public SAP ID
Context	**configure** service vprn *service-name* interface *interface-name* ipsec public-sap *number*
Tree	public-sap
Range	0 to 4094
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	Tunnel group ID
Context	**configure** service vprn *service-name* interface *interface-name* ipsec tunnel-group *reference*
Tree	tunnel-group
Reference	**configure** isa tunnel-group *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

addresses

Synopsis	Enter the **addresses** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 addresses
Tree	addresses
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv4-address] *ipv4-unicast-address*

Synopsis	Enter the **address** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 addresses address *ipv4-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ipv4-address**] *ipv4-unicast-address*

Synopsis	IPv4 address for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 addresses address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 addresses address *ipv4-unicast-address* prefix-length *number*
Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-directed-broadcasts *boolean*

Synopsis	Forward directed broadcasts
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 allow-directed-broadcasts *boolean*
Tree	allow-directed-broadcasts
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context

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Context	**configure** service vprn *service-name* interface *interface-name* ipv4 bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 bfd multiplier *number*
Tree	multiplier
Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.

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Range	1 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp

Synopsis	Enter the **dhcp** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp
Tree	dhcp

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DHCP
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

gi-address *ipv4-unicast-address*

Synopsis	GI address for the DHCP relay
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp gi-address *ipv4-unicast-address*
Tree	gi-address
Description	This command configures the GI address to distinguish between the different subscriber interfaces (and potentially group interfaces) defined when the router functions as a DHCP relay. By default, the GI address used in the relayed DHCP packet is the primary IP address of a normal IES interface. Specifying the GI address allows the user to choose a secondary address. For group interfaces, a GI address must be specified under the group interface DHCP context or subscriber interface DHCP context for DHCP to function.

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-populate

Synopsis	Enter the **lease-populate** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp lease-populate
Tree	lease-populate
Introduced	25.3.R2
Platforms	SAR Gen 2

max-leases *number*

Synopsis	Maximum number of DHCPv4 leases allowed
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp lease-populate max-leases *number*
Tree	max-leases
Range	0 to 511999
Introduced	25.3.R2
Platforms	SAR Gen 2

option-82

Synopsis	Enter the **option-82** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82
Tree	option-82
Description	Commands in this context configure the processing required when the router receives a DHCP request that already has an Option 82 field in the packet.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action to take with received DHCP Option 82

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Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 action *keyword*
Tree	action
Options	replace, drop, keep
Default	keep
Introduced	25.3.R2
Platforms	SAR Gen 2

circuit-id

Synopsis	Enter the **circuit-id** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id
Tree	circuit-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-tuple

Synopsis	Use the ASCII-encoded tuple for the circuit ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id ascii-tuple
Tree	ascii-tuple
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ifindex

Synopsis	Use the interface index for the circuit ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id ifindex
Tree	ifindex
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

none

Synopsis	Do not include the circuit ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id

Synopsis	Use the SAP ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id sap-id
Tree	sap-id
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vlan-ascii-tuple

Synopsis	Include the VLAN ID and dot1p bits in the ASCII tuple
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 circuit-id vlan-ascii-tuple
Tree	vlan-ascii-tuple
Description	When configured, the router includes the VLAN ID and dot1p bits with the ASCII-tuple information. This only occurs on dot1q and QinQ-encapsulated ports. When the Option 82 bits are stripped, dot1p bits are copied to the Ethernet header of the outgoing packet. When unconfigured, the router leaves the circuit ID sub-option of the DHCP packet empty.
Notes	The following elements are part of a choice: **ascii-tuple**, **ifindex**, **none**, **sap-id**, or **vlan-ascii-tuple**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

remote-id

Synopsis	Enter the **remote-id** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id
Tree	remote-id
Description	Commands in this context configure the remote IP sub-option of the DHCP packet with the identity of the remote host end (typically the DHCP client).
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the remote ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac

Synopsis	Use the MAC address for the remote ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id mac
Tree	mac
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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none

Synopsis	Do not include the remote ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 remote-id none
Tree	none
Notes	The following elements are part of a choice: **ascii-string**, **mac**, or **none**.
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-specific-option

Synopsis	Enter the **vendor-specific-option** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option
Tree	vendor-specific-option
Description	Commands in this context configure the Nokia Vendor-Specific Option (VSO) of the DHCP packet.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-mac-address *boolean*

Synopsis	Send the MAC address in the VSO
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option client-mac-address *boolean*
Tree	client-mac-address
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pool-name *boolean*

Synopsis	Send the pool name in the VSO
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option pool-name *boolean*

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Tree	pool-name
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id *boolean*

Synopsis	Send SAP ID in the sub-option of the DHCP relay packet
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option sap-id *boolean*
Tree	sap-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *boolean*

Synopsis	Send the service ID in the Vendor Specific Option
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option service-id *boolean*
Tree	service-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string-not-all-spaces*

Synopsis	User-defined ASCII string for the VSO
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option string *string-not-all-spaces*
Tree	string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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system-id *boolean*

Synopsis	Send the system ID in the VSO
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp option-82 vendor-specific-option system-id *boolean*
Tree	system-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-server

Synopsis	Enter the **proxy-server** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp proxy-server
Tree	proxy-server
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCP proxy server
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp proxy-server admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

emulated-server *ipv4-unicast-address*

Synopsis	IP address used as the DHCP server address for the SAP
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp proxy-server emulated-server *ipv4-unicast-address*
Tree	emulated-server

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Description	This command configures the IP address which will be used as the DHCP server address in the context of the SAP. Typically, the configured address should be in the context of the subnet represented by the service.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-time

Synopsis	Enter the **lease-time** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp proxy-server lease-time
Tree	lease-time
Introduced	25.3.R2
Platforms	SAR Gen 2

radius-override *boolean*

Synopsis	Use lease time information provided by RADIUS server
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp proxy-server lease-time radius-override *boolean*
Tree	radius-override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	DHCP lease time
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp proxy-server lease-time value *number*
Tree	value
Range	300 to 315446399
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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relay-plain-bootp *boolean*

Synopsis	Enable relaying of plain BOOTP packets
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp relay-plain-bootp *boolean*
Tree	relay-plain-bootp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

relay-proxy

Synopsis	Enable the **relay-proxy** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp relay-proxy
Tree	relay-proxy
Introduced	25.3.R2
Platforms	SAR Gen 2

release-update-src-ip *boolean*

Synopsis	Update the source IP address of a DHCP RELEASE message
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp relay-proxy release-update-src-ip *boolean*
Tree	release-update-src-ip
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

siaddr-override *ipv4-unicast-address*

Synopsis	DHCP server IP address for address hiding function
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp relay-proxy siaddr-override *ipv4-unicast-address*
Tree	siaddr-override
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv4-unicast-address*

Synopsis	IP addresses for DHCP server requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp server *ipv4-unicast-address*
Tree	server
Description	This command configures a list of servers that this interface forwards requests to. The operator can enter the list of servers as either IP addresses or fully qualified domain names. The operator must specify at least one server specified for DHCP relay to work. If there are multiple servers, the system forwards the request to all the servers in the list.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	8
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip-addr *keyword*

Synopsis	Type of source address to use for DHCP relay
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp src-ip-addr *keyword*
Tree	src-ip-addr
Options	auto, gi-address
Default	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

trusted *boolean*

Synopsis	Relay untrusted packets
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp trusted *boolean*

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Tree	trusted
Description	When configured to **true**, the router enables the trusted mode on the interface. When enabled, the relay agent changes the existing GI address (of the request) to the ingress interface, and forwards the request. A DHCP request that contains a GI address of 0.0.0.0 and an Option 82 field in the packet is discarded unless it arrives on a trusted circuit. This behavior only applies if the Relay Agent Information Option action is to keep the existing information. When the Option 82 field is replaced by the relay agent, the original Option 82 information is lost, and there is no reason to enable the trusted option.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-arp *boolean*

Synopsis	Use ARP to determine the destination hardware address
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 dhcp use-arp *boolean*
Tree	use-arp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

mask-reply *boolean*

Synopsis	Allow responses to ICMP mask requests on the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp mask-reply *boolean*
Tree	mask-reply

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp param-problem
Tree	param-problem
Description	Commands in this context specify the settings for ICMP Parameter Problem messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sent Parameter Problem messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of Parameter Problem messages to send
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Time used to limit number of Parameter Problem messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp param-problem seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

redirects

Synopsis	Enter the **redirects** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp redirects
Tree	redirects
Description	Commands in this context configure the settings for ICMP redirect messages generated by the interface. The system sends ICMP redirect messages to alert the sending node that a more optimal route is available on another router on the same subnetwork.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending ICMP redirect messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp redirects admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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number *number*

Synopsis	Maximum number of ICMP redirect messages to send
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of ICMP redirect messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp redirects seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-expired

Synopsis	Enter the **ttl-expired** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp ttl-expired
Tree	ttl-expired
Description	Commands in this context configure the settings for ICMP TTL expired messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending TTL expired messages

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Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp ttl-expired admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of TTL expired messages to send
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp ttl-expired number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of TTL expired messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp ttl-expired seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp unreachables
Tree	unreachables

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Description	Commands in this context specify the settings for ICMP host and network destination unreachable messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending unreachable messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of unreachable messages to send
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp unreachables number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time to limit the number of ICMP unreachable messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 icmp unreachables seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-helper-address *ipv4-unicast-address*

Synopsis	Gateway address
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 ip-helper-address *ipv4-unicast-address*
Tree	ip-helper-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *reference*

Synopsis	DHCP server for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 local-dhcp-server *reference*
Tree	local-dhcp-server
Reference	**configure** service vprn *service-name* dhcp-server dhcpv4 *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enable the **nat** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 nat
Tree	nat
Description	Commands in this context enable NAT and configure CPM NAT policies for the IPv4 interface. These commands must be used in conjunction with NAT pools where the pool application is configured with the **configure service vprn outside pool applications use-interface-ip** command.
Introduced	25.7.R1
Platforms	SAR Gen 2

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cpm-nat-policy *reference*

Synopsis	CPM NAT policy association with public IPv4 interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 nat cpm-nat-policy *reference*
Tree	cpm-nat-policy
Description	This command associates a CPM NAT policy to the interface. The NAT policy applies to traffic that either originates from, or is destined to, the local node itself (CPM traffic). Specifically, it is used when the traffic is routed through a public NAT IPv4 interface in the outside routing context. A CPM NAT policy should be used when the local node communicates with public networks over NAT, and the source or destination is a local interface within the outside routing context. This can include the public IPv4 interface or any other interface assigned to that routing context.
Reference	**configure** service nat cpm-nat-policy *external-named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

cpm-spf-nat-policy *reference*

Synopsis	CPM NAT policy for static port forwards
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 nat cpm-spf-nat-policy *reference*
Tree	cpm-spf-nat-policy
Description	This command associates a CPM NAT policy to the interface for static port forwards. The configurations for traffic using static port forwards to a local IP address in the outside routing context are separate from those used for other CPM traffic going through NAT. This command allows the router to apply different NAT behavior for port-forwarded traffic than for general traffic originating from the local node.
Reference	**configure** service nat cpm-nat-policy *external-named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery
Tree	neighbor-discovery

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Introduced	25.3.R2
Platforms	SAR Gen 2

host-route

Synopsis	Enter the **host-route** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery host-route
Tree	host-route
Introduced	25.3.R2
Platforms	SAR Gen 2

populate [route-type] *keyword*

Synopsis	Enter the **populate** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery host-route populate *keyword*
Tree	populate
Description	Commands in this context enable the creation of ARP or ND host route entries in the route table from a certain ARP or ND entry type.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery host-route populate *keyword*
Tree	populate
Options	static – Host routes created from EVPN ARP or ND entries dynamic – Host routes created from dynamic ARP or ND entries evpn – Host routes created from EVPN entries evpn-local-es – Host routes created from EVPN local ES entries
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery host-route populate *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added in the route table for ARP or ND host routes. This tag can be matched on BGP VRF export and BGP peer export policies.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-unsolicited *boolean*

Synopsis	Learn new entries from any received NA message
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery learn-unsolicited *boolean*
Tree	learn-unsolicited
Description	When configured to **true**, the router can learn neighbor entries from received unsolicited Neighbor Advertisement (NA) messages, with or without the solicited (S) flag set. The command can be enabled for global addresses, link-local addresses, or for both. When configured to **false**, the router follows standard behavior for learning neighbor entries. • If an unsolicited NA (regardless of the S flag) is received from a neighbor that is not yet in the Neighbor Discovery (ND) cache, the NA is ignored. • If an NS, RS, RA, or Redirect message with a Link Layer Address (MAC) is received from a neighbor that is not yet in the ND cache, a new neighbor entry is created in the cache to store the received Link Layer MAC. The neighbor is put in the STALE state.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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limit

Synopsis	Enter the **limit** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery limit
Tree	limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Generate log entries only if limit is reached
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

Synopsis	Maximum number of entries learned on an IP interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery limit max-entries *number*
Tree	max-entries
Range	0 to 524288
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold value that triggers a warning message
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery limit threshold *number*
Tree	threshold
Range	1 to 100

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Units	percent
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

local-proxy-arp *boolean*

Synopsis	Enable local proxy ARP on interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery local-proxy-arp *boolean*
Tree	local-proxy-arp
Description	When configured to **true**, the router enables local proxy ARP on the interface. When configured to **false**, the router does not respond to ARP requests for addresses on the same subnet.
Introduced	25.3.R2
Platforms	SAR Gen 2

populate *boolean*

Synopsis	Allow static and dynamic hosts to be populated in system ARP cache
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery populate *boolean*
Tree	populate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proactive-refresh *boolean*

Synopsis	Send a single refresh message before entry timeout
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery proactive-refresh *boolean*
Tree	proactive-refresh
Description	When configured to **true**, the router always sends a refresh message 30 seconds before the timeout of the entry (a single refresh message with no retries). When configured to **false**, the router marks an entry as stale 30 seconds before age-out, and the router only sends an ARP request to refresh the entry if the IOM receives traffic

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that uses it. Then, the IOM asks the ARP application to send a refresh message. With ARP proactive refresh enabled, the ARP module sends a refresh message regardless of the IOM receiving traffic.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-arp-policy *reference*

Synopsis	Proxy ARP policy name
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery proxy-arp-policy *reference*
Tree	proxy-arp-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-proxy-arp *boolean*

Synopsis	Enable remote proxy ARP on the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery remote-proxy-arp *boolean*
Tree	remote-proxy-arp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timer *number*

Synopsis	ARP retry interval
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery retry-timer *number*
Tree	retry-timer
Range	1 to 300

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Units	deciseconds
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv4-address] *ipv4-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-address*

Synopsis	IPv4 address that corresponds to the physical address
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address* mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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static-neighbor-unnumbered

Synopsis	Enable the **static-neighbor-unnumbered** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor-unnumbered
Tree	static-neighbor-unnumbered
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery static-neighbor-unnumbered mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout for an ARP entry learned on the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 neighbor-discovery timeout *number*
Tree	timeout
Description	This command configures the minimum time an ARP entry learned on the IP interface is stored in the ARP table. ARP entries are automatically refreshed when an ARP request or gratuitous ARP is seen by an IP host. Otherwise, the ARP entry is aged from the ARP table.
Range	0 to 65535
Units	seconds
Default	14400
Introduced	25.3.R2
Platforms	SAR Gen 2

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primary

Synopsis	Enable the **primary** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 primary
Tree	primary
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Primary IPv4 address assigned to the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 primary address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 primary broadcast *keyword*
Tree	broadcast
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 primary prefix-length *number*

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Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 primary tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

secondary [address] *ipv4-unicast-address*

Synopsis	Enter the **secondary** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address*
Tree	secondary
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis	Secondary IPv4 address assigned to the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address*

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Tree	secondary
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* broadcast *keyword*
Tree	broadcast
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-inhibit *boolean*

Synopsis	Disable the running IGP from recognizing secondary IP
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* igp-inhibit *boolean*
Tree	igp-inhibit
Description	When configured to **true**, the running IGP does not recognize the secondary IP address as a local interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* prefix-length *number*
Tree	prefix-length

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Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 secondary *ipv4-unicast-address* tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.
Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 tcp-mss *number*
Tree	tcp-mss
Range	384 to 9746
Introduced	25.3.R2
Platforms	SAR Gen 2

unnumbered

Synopsis	Enter the **unnumbered** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 unnumbered
Tree	unnumbered

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Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-unicast-address*

Synopsis	IP address for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 unnumbered ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **ip-address** or **ip-int-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-int-name *interface-name*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 unnumbered ip-int-name *interface-name*
Tree	ip-int-name
String length	1 to 32
Notes	The following elements are part of a choice: **ip-address** or **ip-int-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-default *boolean*

Synopsis	Ignore default route when performing a uRPF check
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 urpf-check ignore-default *boolean*
Tree	ignore-default
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp [virtual-router-id] *number*

Synopsis	Enter the **vrrp** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number*
Tree	vrrp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual Router Identifier (VRID) for the IP interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number*
Tree	vrrp

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Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of VRRP
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* admin-state *keyword*
Tree	admin-state
Description	The command determines the administrative state of non-owner virtual router instances. Non-owner virtual router instances can be administratively disabled. This allows the termination of VRRP participation in the virtual router and stops all routing and other access capabilities with regards to the virtual router IP addresses. Disabling the virtual router instance provides a mechanism to maintain the virtual routers without causing false backup or master state changes. When **disabled**, no VRRP advertisement messages are generated and all received VRRP advertisement messages are silently discarded with no processing. Whenever the administrative or operational state of a virtual router instance transitions, a log message is generated. An owner virtual router context does not use this command. To administratively disable an owner virtual router instance, use the **admin-state** command within the parent IP interface node which administratively disables the IP interface.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Password for simple text authentication
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command optionally assigns a simple text password authentication key to generate master VRRP advertisement messages and validate received VRRP advertisement messages.

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If this command is re-executed with a different password key defined, the new key immediately replaces the old key. This command may be executed at any time.

This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 94

Introduced 25.3.R2

Platforms SAR Gen 2

backup *ipv4-unicast-address*

Synopsis Virtual router IP addresses for the interface

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* backup *ipv4-unicast-address*

Tree backup

Description This command associates virtual router IP addresses with those of the parental IP interface.

This command has two different functions based on whether it is being executed on an owner or non-owner virtual router instance.

Non-owner virtual router instances create a routable IP interface address that is operationally dependent on the virtual router instance mode (master or backup). This command, when executed on an owner virtual router instance, does not create a routable IP interface address; it simply defines the existing IP addresses of the parental IP interface that are advertised by the virtual router instance.

For owner virtual router instances, this command defines the IP addresses that are advertised within VRRP advertisement messages. This communicates the IP addresses that the master is advertising to backup virtual routers receiving the messages. The specified *unicast-ipv4-address* must be equal to one of the existing IP addresses in the parental IP interface (primary or secondary) or this command fails.

See "Owner and non-owner VRRP" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about owner and non-owner virtual router instances.

String format 'ipv4-address' must use only digits and dots (no %zone)
'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

Max. instances 16

Introduced 25.3.R2

Platforms SAR Gen 2

bfd-liveness

Synopsis Enable the **bfd-liveness** context

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Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Destination IP address to use for BFD session
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness dest-ip *ipv4-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Name of the interface running BFD
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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service-name *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* bfd-liveness service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

init-delay *number*

Synopsis	VRRP initialization delay timer
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* init-delay *number*
Tree	init-delay
Range	1 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	Virtual MAC address to use in ARP responses
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* mac *mac-unicast-address*
Tree	mac
Description	This command sets an explicit MAC address for the virtual router instance that overrides the VRRP default derived from the VRID. Changing the default MAC address is useful when an existing HSRP or other non-VRRP default MAC is in use by the IP hosts that use the virtual router IP address. Many hosts do not monitor unessential ARPs and continue to use the cached non-VRRP MAC address after the virtual router becomes master of the host's gateway address.

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Additionally, this command sets the MAC address used in ARP responses when the virtual router instance is master. Routing of IP packets with *unicast-mac-address* as the destination MAC is also enabled. The MAC must be the same for all virtual routers participating as a virtual router or indeterminate connectivity by the attached IP hosts results. All VRRP advertisement messages are transmitted with *unicast-mac-address* as the source MAC.

An operator can execute this command at any time and it takes effect immediately. When the virtual router MAC on a master virtual router instance changes, a gratuitous ARP is immediately sent with a VRRP advertisement message. If the virtual router instance is disabled or operating as a backup, the gratuitous ARP and VRRP advertisement messages are not sent.

String format 'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)

Introduced 25.3.R2

Platforms SAR Gen 2

master-int-inherit *boolean*

Synopsis Allow master instance to dictate the master down timer

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* master-int-inherit *boolean*

Tree master-int-inherit

Description When configured to **true**, the virtual router instance inherits the advertisement interval timer of the master VRRP router, which backup routers use to calculate the master down timer.

When configured to **false**, the locally configured message interval must match the master's VRRP advertisement message advertisement interval field value or the message is discarded.

Introduced 25.3.R2

Platforms SAR Gen 2

message-interval *number*

Synopsis Interval for sending VRRP advertisement messages

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* message-interval *number*

Tree message-interval

Description This command configures the administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages. The backup master down timer is derived from the value configured using this command.

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The usage of this command varies for non-owner virtual router instances, depending on the state of the virtual router (master or backup) and the state of the **master-int-inherit** command:

- When a non-owner is operating as master for the virtual router, the system uses the configured value of this command as the operational advertisement timer, similar to an owner virtual router instance. The **master-int-inherit** command has no effect when operating as master.
- When a non-owner is in the backup state with **master-int-inherit** disabled, the system uses the configured value of this command to match the incoming advertisement interval field of the VRRP advertisement message. If the locally configured message interval does not match the advertisement interval field, the system discards the VRRP advertisement.
- When a non-owner is in the backup state with **master-int-inherit** enabled, the configured value of this command is ignored. The master down timer is indirectly derived from the advertisement interval field value of the incoming VRRP advertisement message.

Range	1 to 2559
Units	deciseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VRRP instance to follow a specified operational group
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* monitor-oper-group *reference*
Tree	monitor-oper-group
Description	This command configures VRRP to associate with an operational group. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router, the operational group is up and the operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ntp-reply *boolean*

Synopsis	Allow processing of NTP requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* ntp-reply *boolean*
Tree	ntp-reply
Description	When configured to **true**, the router redirects NTP requests to the VRRP virtual IP address. This behavior only applies to the router acting as the master VRRP router. When configured to **false**, the router does not process NTP requests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group name associated with the VRRP
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* oper-group *reference*
Tree	oper-group
Description	This command configures an operational group to associate with the VRRP. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router (MR), the operational group is up. The operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate the virtual router instance as owner
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* owner *boolean*
Tree	owner

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Description	When configured to **true**, the router designates this virtual router instance as the owner of the virtual router IP addresses. Therefore, this virtual router becomes responsible for forwarding packets sent to the virtual router IP addresses. The owner also assumes the role of master virtual router. When configured to **false**, this virtual router instance is designated as a non-owner.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Suppress the processing of VRRP advertisement messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* passive *boolean*
Tree	passive
Description	When configured to **true**, the router identifies this virtual router instance as passive; and therefore the owner of the virtual router IP addresses. A passive virtual router instance does not transmit or receive VRRP advertisement messages and is always in either the master state (if the interface is operationally up) or the init state (if the interface is operationally down). When configured to **false**, this virtual router instance is not identified as passive, meaning that it transmits and receives VRRP advertisement messages.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ping-reply *boolean*

Synopsis	Allow non-owner master to reply to ICMP echo requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* ping-reply *boolean*
Tree	ping-reply
Description	When configured to **true**, the router allows the non-owner master to reply to ICMP echo requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the ping request. Ping must not have been disabled at the management security level (either on the parental IP interface or on the Ping source host address).

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When configured to **false**, ICMP echo requests sent to non-owner master virtual IP addresses are silently discarded.

Non-owner backup virtual routers never respond to ICMP echo requests, regardless of the configuration of this command.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

policy *reference*

Synopsis VRRP priority control policy

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* policy *reference*

Tree policy

Description This command configures a VRRP priority control policy to associate with the virtual router instance.

VRRP priority control policies can override or adjust the base priority value of the virtual router instance, depending on events or conditions within the chassis.

An operator can associate a policy with more than one virtual router instance. The priority events within the policy either override or diminish the base priority set with the **priority** command. As priority events clear in the policy, the in-use priority can eventually be restored to the base priority value.

For non-owner virtual router instances, if this command is not executed, the base priority is used as the in-use priority.

Reference **configure** vrrp policy *number*

Introduced 25.3.R2

Platforms SAR Gen 2

preempt *boolean*

Synopsis Allow the VRRP to override an existing non-owner master

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* preempt *boolean*

Tree preempt

Description When configured to **true**, this virtual router instance overrides any non-owner master with an in-use message priority value less than the in-use priority value of this virtual router.

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When configured to **false**, this virtual router only becomes master if the master down timer expires before a VRRP advertisement message is received from another virtual router.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

priority *number*

Synopsis Base priority for the VRRP

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* priority *number*

Tree priority

Description This command configures the base router priority for the virtual router instance, which defines the selection order of the virtual router in the master election process.

The in-use priority is derived from the base priority. However, the in-use priority is modified by optional VRRP priority control policies. An operator can use VRRP priority control policies to either override or adjust the base priority value depending on events or conditions within the chassis.

Range 1 to 255

Introduced 25.3.R2

Platforms SAR Gen 2

ssh-reply *boolean*

Synopsis Allow the non-owner master to reply to SSH requests

Context **configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* ssh-reply *boolean*

Tree ssh-reply

Description When configured to **true**, the router allows the non-owner master to reply to SSH requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the SSH request. SSH cannot be disabled at the management security level (either on the parental IP interface or on the SSH source host address).

When configure to **false**, SSH requests to non-owner master virtual IP addresses are silently discarded.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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standby-forwarding *boolean*

Synopsis	Allow standby router to forward traffic
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* standby-forwarding *boolean*
Tree	standby-forwarding
Description	When configured to **true**, the standby router forwards all traffic. When configured to **false**, the standby router cannot forward traffic sent to the MAC address of the virtual router. However, the standby router still forwards traffic sent to its own MAC address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-reply *boolean*

Synopsis	Allow non-owner master to reply to Telnet requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* telnet-reply *boolean*
Tree	telnet-reply
Description	When configured to **true**, the router allows the non-owner master to reply to Telnet requests directed at the IP addresses of the virtual router instance. Any routed interface can receive Telnet requests. Telnet cannot be disabled at the management security level (either on the parental IP interface or on the Telnet source host address). When configured to **false**, the router silently discards Telnet requests sent to non-owner master virtual IP addresses.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traceroute-reply *boolean*

Synopsis	Allow non-owner master to reply to traceroute requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv4 vrrp *number* traceroute-reply *boolean*
Tree	traceroute-reply
Description	When configured to **true**, the router allows a non-owner master to reply to traceroute requests directed to the IP addresses of the virtual router instance.

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When configured to **false**, the router silently discards traceroute requests sent to non-owner master virtual IP addresses.

Traceroute must not have been disabled at the management security level (either on the parental IP interface or the source host address).

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

ipv6

Synopsis Enable the **ipv6** context

Context **configure** service vprn *service-name* interface *interface-name* ipv6

Tree ipv6

Description This command enables the context to configure IPv6 parameters for the interface.

Introduced 25.3.R2

Platforms SAR Gen 2

address [ipv6-address] *ipv6-address*

Synopsis Enter the **address** list instance

Context **configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address*

Tree address

Description This command assigns an IPv6 address/subnet to the interface.

Up to 16 total primary and secondary IPv4 and IPv6 addresses can be assigned to network interfaces, and up to 256 to access interfaces.

Caution: Configurations must not exceed 16 secondary IP addresses when IPsec, GRE, L2TPv3, or IP in IP protocols are active on an access interface.

Introduced 25.3.R2

Platforms SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis IPv6 address assigned to the interface

Context **configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address*

Tree address

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Enable Duplicate Address Detection
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address* duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD). When configured to **false**, the router disables DAD and sets the address to preferred, even if there is a duplicated address.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

eui-64 *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Form IPv6 address from prefix and 64-bit interface ID
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address* eui-64 *boolean*
Tree	eui-64
Description	When configured to **true**, the router forms a complete IPv6 address from the supplied prefix and 64-bit interface identifier. The 64-bit interface identifier is derived from the MAC address on Ethernet interfaces. For interfaces without a MAC address, for example POS interfaces, use the base MAC address of the chassis.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-length *number*

Synopsis	IPv6 address prefix length
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address* prefix-length *number*
Tree	prefix-length
Range	4 to 128
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

primary-preference *number*

Synopsis	Index assigned to the IPv6 address of the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address* primary-preference *number*
Tree	primary-preference
Description	This command assigns a primary preference index to an IPv6 address of the interface to enforce the order in which the address is used by control plane protocols and applications that require a fixed address of the interface, such as LDP and Segment Routing. In cases where a fixed address is required when originating packets from the interface, the IPv6 address with the lowest primary preference index is selected. If the selected address is removed, the next IPv6 address with the next lowest primary preference index is selected. If this index is not specified for the IPv6 address, the system assigns the next available index value to the address. The address index space is unique across all addresses of a given interface.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *(number | keyword)*

Synopsis	Route tag to be matched by BGP export policy rules
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 address *ipv6-address* tag *(number | keyword)*
Tree	tag
Description	This command associates an administrative tag value with an interface IP address. This tag value is added to the IP FIB entries corresponding to the subnet route and host route

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created by IP address configuration. This tag can be used to filter these routes when they are processed by a BGP export policy, a BGP RIB-management route table import policy, as IS-IS export policy or an OSPF export policy.

Range	1 to 4294967295
Options	no-tag
Default	no-tag
Introduced	26.3.R1
Platforms	SAR Gen 2

bfd

Synopsis	Enter the **bfd** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 bfd multiplier *number*
Tree	multiplier
Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.
Range	1 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.

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Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6
Tree	dhcp6
Introduced	25.3.R2
Platforms	SAR Gen 2

relay

Synopsis	Enter the **relay** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay
Tree	relay
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of DHCPv6 Relay
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

lease-populate

Synopsis	Enter the **lease-populate** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate
Tree	lease-populate
Introduced	25.3.R2
Platforms	SAR Gen 2

max-nbr-of-leases *number*

Synopsis	Maximum lease state entries allowed for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate max-nbr-of-leases *number*
Tree	max-nbr-of-leases
Range	0 to 32767
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

route-populate

Synopsis	Enter the **route-populate** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate

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Tree	route-populate
Introduced	25.3.R2
Platforms	SAR Gen 2

na *boolean*

Synopsis	Create route based on IA_NA prefix option in relay-reply message
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate na *boolean*
Tree	na
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pd

Synopsis	Enable the **pd** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate pd
Tree	pd
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Create back hole route based on prefix exclude option in relay-reply message
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate pd exclude *boolean*
Tree	exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ta *boolean*

Synopsis	Create route based on IA_TA prefix option in relay-reply message

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Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay lease-populate route-populate ta *boolean*
Tree	ta
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

option

Synopsis	Enter the **option** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-id

Synopsis	Enter the **interface-id** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id
Tree	interface-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-tuple

Synopsis	Use ASCII-encoded concatenated tuple
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id ascii-tuple
Tree	ascii-tuple
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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if-index

Synopsis	Use interface index in the DHCPv6 relay packet
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id if-index
Tree	if-index
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id

Synopsis	Use SAP ID in interface ID option in relay packet
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id sap-id
Tree	sap-id
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string-not-all-spaces*

Synopsis	String for interface ID option in DHCPv6 relay packet
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option interface-id string *string-not-all-spaces*
Tree	string
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-tuple**, **if-index**, **sap-id**, or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-id *boolean*

Synopsis	Send remote ID option in the DHCPv6 relay packet

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Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay option remote-id *boolean*
Tree	remote-id
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv6-address-with-zone*

Synopsis	DHCPv6 server to which the DHCPv6 requests are forwarded
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay server *ipv6-address-with-zone*
Tree	server
String format	'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Max. instances	8
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *ipv6-unicast-or-linklocal-address*

Synopsis	Source IPv6 address of the DHCPv6 relay messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 dhcp6 relay source-address *ipv6-unicast-or-linklocal-address*
Tree	source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

Synopsis	Enable Duplicate Address Detection per interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

forward-ipv4-packets *boolean*

Synopsis	Forward unencapsulated IPv4 packets
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 forward-ipv4-packets *boolean*
Tree	forward-ipv4-packets
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6

Synopsis	Enter the **icmp6** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6
Tree	icmp6
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

Synopsis	Enter the **packet-too-big** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 packet-too-big
Tree	packet-too-big
Description	Commands in this context configure limiting the number of ICMPv6 Packet Too Big messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Packet Too Big message sends

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Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number of Packet Too big Messages issued per time frame
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 packet-too-big number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit Packet Too Big messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 packet-too-big seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 param-problem
Tree	param-problem

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Parameter Problem message sends
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number used to limit ICMPv6 Parameter Problem messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Parameter Problem messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 param-problem seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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redirects

Synopsis	Enter the **redirects** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 redirects
Tree	redirects
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Redirect message sends
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 redirects admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit ICMPv6 Redirect messages per time frame
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Redirect messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 redirects seconds *number*
Tree	seconds

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Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

time-exceeded

Synopsis	Enter the **time-exceeded** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 time-exceeded
Tree	time-exceeded
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Time Exceeded message sends
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 time-exceeded admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit Time Exceeded messages per time frame
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 time-exceeded number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Time used to limit ICMPv6 Time Exceeded messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 time-exceeded seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 unreachables
Tree	unreachables
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of Unreachable message sends
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Number to limit Unreachable messages per time frame
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 unreachables number *number*
Tree	number

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Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit ICMPv6 Unreachable messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 icmp6 unreachables seconds *number*
Tree	seconds
Range	1 to 60
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

link-local-address

Synopsis	Enter the **link-local-address** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 link-local-address
Tree	link-local-address
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

Synopsis	IPv6 link-local address
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 link-local-address address *ipv6-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

duplicate-address-detection *boolean*

Synopsis	Enable Duplicate Address Detection

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Context	**configure** service vprn *service-name* interface *interface-name* ipv6 link-local-address duplicate-address-detection *boolean*
Tree	duplicate-address-detection
Description	When configured to **true**, the router enables Duplicate Address Detection (DAD) on the interface. When configured to **false**, the router disables DAD and sets the address to preferred, even if there is a duplicated address.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

local-dhcp-server *reference*

Synopsis	DHCP server for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 local-dhcp-server *reference*
Tree	local-dhcp-server
Description	This command instantiates a local DHCP server. A local DHCP server can serve multiple interfaces but is limited to the routing context in which it was created.
Reference	**configure** service vprn *service-name* dhcp-server dhcpv6 *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

host-route

Synopsis	Enter the **host-route** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery host-route
Tree	host-route

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Introduced	25.3.R2
Platforms	SAR Gen 2

populate [route-type] *keyword*

Synopsis	Enter the **populate** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery host-route populate *keyword*
Tree	populate
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery host-route populate *keyword*
Tree	populate
Options	static – Host routes created from EVPN ARP or ND entries dynamic – Host routes created from dynamic ARP or ND entries evpn – Host routes created from EVPN entries evpn-local-es – Host routes created from EVPN local ES entries
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery host-route populate *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added in the route table for ARP or ND host routes. This tag can be matched on BGP VRF export and BGP peer export policies.

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Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-unsolicited *keyword*

Synopsis	Type of entries learned from unsolicited NA messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery learn-unsolicited *keyword*
Tree	learn-unsolicited
Description	This command enables the ability to learn neighbor entries out of received unsolicited Neighbor Advertisement (NA) messages, with or without the solicited flag set. When unconfigured, the router follows standard RFC 4861 behavior for learning of neighbor entries. The neighbor is put in the stale state. This is the standard RFC behavior.
Options	global, link-local, both
Introduced	25.3.R2
Platforms	SAR Gen 2

limit

Synopsis	Enter the **limit** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery limit
Tree	limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Generate log entries when limit is reached
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery limit log-only *boolean*
Tree	log-only
Description	When configured to **true**, the router sends the warning message at the specified threshold percentage or upon exceeding the specified limit. Entries that exceed the limit are learned.

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When configured to **false**, the router does not send the warning message.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

Synopsis	Maximum number of entries learned on an IP interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery limit max-entries *number*
Tree	max-entries
Description	This command configures the maximum number of entries that can be learned on an IP interface. When unconfigured, no maximum limit is imposed.
Range	0 to 102400
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Threshold percentage that triggers a warning message
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery limit threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Default	90
Introduced	25.3.R2
Platforms	SAR Gen 2

local-proxy-nd *boolean*

Synopsis	Enable local proxy neighbor discovery on the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery local-proxy-nd *boolean*
Tree	local-proxy-nd

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Description	When configured to **true**, the router enables local proxy neighbor discovery on the interface and replies to neighbor solicitation requests when both the hosts are on the same subnet. In this case, ICMP redirects are disabled. When configured to **false**, the router disables local proxy neighbor discovery on the interface and does not reply to neighbor solicitation requests if both the hosts are on the same subnet.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

proactive-refresh *keyword*

Synopsis	Proactive refresh of neighbor entries
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery proactive-refresh *keyword*
Tree	proactive-refresh
Description	This command enables a proactive refresh of the neighbor entries. After the stale timer expires, the router sends an NUD message to the host (regardless of the existence of traffic to the IP address on the IOM), so the entry can be refreshed or removed.
Options	global, link-local, both
Introduced	25.3.R2
Platforms	SAR Gen 2

proxy-nd-policy *reference*

Synopsis	Proxy Neighbor Discovery policy name for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery proxy-nd-policy *reference*
Tree	proxy-nd-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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reachable-time *number*

Synopsis	Neighbor reachability detection timer
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery reachable-time *number*
Tree	reachable-time
Range	30 to 3600
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-time *number*

Synopsis	Time a Neighbor Discovery cache entry remains stale
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery stale-time *number*
Tree	stale-time
Range	60 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv6-address] *ipv6-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address*
Tree	static-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-address*

Synopsis	IPv6 address corresponding to the physical address
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address*
Tree	static-neighbor
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 neighbor-discovery static-neighbor *ipv6-address* mac-address *mac-address*
Tree	mac-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 tcp-mss *number*
Tree	tcp-mss
Range	1220 to 9726
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-default *boolean*

Synopsis	Ignore default route when performing a uRPF check
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 urpf-check ignore-default *boolean*
Tree	ignore-default

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

vrrp [virtual-router-id] *number*

Synopsis	Enter the **vrrp** list instance
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number*
Tree	vrrp
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**virtual-router-id**] *number*

Synopsis	Virtual Router Identifier (VRID) for the IP interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number*
Tree	vrrp
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of VRRP
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* admin-state *keyword*
Tree	admin-state
Description	The command determines the administrative state of non-owner virtual router instances. Non-owner virtual router instances can be administratively disabled. This allows the termination of VRRP participation in the virtual router and stops all routing and other access capabilities with regards to the virtual router IP addresses. Disabling the virtual router instance provides a mechanism to maintain the virtual routers without causing false backup or master state changes. When **disabled**, no VRRP advertisement messages are generated and all received VRRP advertisement messages are silently discarded with no processing. Whenever the administrative or operational state of a virtual router instance transitions, a log message is generated. An owner virtual router context does not use this command. To administratively disable an owner virtual router instance, use the **admin-state** command within the parent IP interface node which administratively disables the IP interface.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup *ipv6-address*

Synopsis	Virtual router IP addresses for the interface
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* backup *ipv6-address*
Tree	backup
Description	This command associates router IPv6 virtual router IP addresses with those of the parental IP interface. This command has two different functions based on whether it is being executed on an owner or non-owner virtual router instance. Non-owner virtual router instance create a routable IP interface address that is operationally dependent on the virtual router instance mode (master or backup). This command, when executed on an owner virtual router instance, does not create a routable IP interface address; it simply defines the existing IP addresses of the parental IP interface that are advertised by the virtual router instance.

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For owner virtual router instances, this command defines the IP addresses that are advertised within VRRP advertisement messages. This communicates the IP addresses that the master is representing to backup virtual routers receiving the messages. The specified IPv6 address must be equal to one of the existing parental IP addresses in the parental IP interface (primary or secondary) or this command fails.

See "Owner and non-owner VRRP" in the *7705 SAR Gen 2 Router Configuration Guide* for more information about owner and non-owner virtual router instances.

Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Destination address for the BFD session
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
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Synopsis	Name of the interface running BFD
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* bfd-liveness service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

init-delay *number*

Synopsis	VRRP initialization delay timer
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* init-delay *number*
Tree	init-delay
Range	1 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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mac *mac-unicast-address*

Synopsis	Virtual MAC address to use in ARP responses
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* mac *mac-unicast-address*
Tree	mac
Description	This command sets an explicit MAC address for the virtual router instance that overrides the VRRP default derived from the VRID. Changing the default MAC address is useful when an existing HSRP or other non-VRRP default MAC is in use by the IP hosts that use the virtual router IP address. Many hosts do not monitor unessential ARPs and continue to use the cached non-VRRP MAC address after the virtual router becomes master of the host's gateway address. Additionally, this command sets the MAC address used in ARP responses when the virtual router instance is master. Routing of IP packets with *unicast-mac-address* as the destination MAC is also enabled. The MAC must be the same for all virtual routers participating as a virtual router or indeterminate connectivity by the attached IP hosts results. All VRRP advertisement messages are transmitted with *unicast-mac-address* as the source MAC. An operator can execute this command at any time and it takes effect immediately. When the virtual router MAC on a master virtual router instance changes, a gratuitous ARP is immediately sent with a VRRP advertisement message. If the virtual router instance is disabled or operating as a backup, the gratuitous ARP and VRRP advertisement messages are not sent.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

master-int-inherit *boolean*

Synopsis	Allow master instance to dictate the master down timer
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* master-int-inherit *boolean*
Tree	master-int-inherit
Description	When configured to **true**, the virtual router instance inherits the advertisement interval timer of the master VRRP router, which backup routers use to calculate the master down timer. When configured to **false**, the locally configured message interval must match the master's VRRP advertisement message advertisement interval field value or the message is discarded.
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-interval *number*

Synopsis	Interval for sending VRRP advertisement messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* message-interval *number*
Tree	message-interval
Description	This command configures the administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages. The backup master down timer is derived from the value configured using this command. The use of this command varies for non-owner virtual router instances, depending on the state of the virtual router (master or backup) and the state of the **master-int-inherit** command: • When a non-owner is operating as master for the virtual router, the system uses the configured value of this command as the operational advertisement timer, similar to an owner virtual router instance. The **master-int-inherit** command has no effect when operating as the master. • When a non-owner is in the backup state with **master-int-inherit** disabled, the system uses the configured value of this command to match the incoming advertisement interval field of the VRRP advertisement message. If the locally configured message interval does not match the advertisement interval field, the system discards the VRRP advertisement. • When a non-owner is in the backup state with **master-int-inherit** enabled, the configured value of this command is ignored. The master down timer is indirectly derived from the advertisement interval field value of the incoming VRRP advertisement message.
Range	10 to 4095
Units	centiseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	VRRP instance to follow a specified operational group
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* monitor-oper-group *reference*
Tree	monitor-oper-group

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Description	This command configures VRRP to associate with an operational group. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router, the operational group is up and the operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp-reply *boolean*

Synopsis	Allow processing of NTP requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* ntp-reply *boolean*
Tree	ntp-reply
Description	When configured to **true**, the router redirects NTP requests to the VRRP virtual IP address. This behavior only applies to the router acting as the master VRRP router. When configured to **false**, the router does not process NTP requests.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

oper-group *reference*

Synopsis	Operational group name associated with the VRRP
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* oper-group *reference*
Tree	oper-group
Description	This command configures an operational group to associate with the VRRP. When associated, VRRP notifies the operational group of its state changes so that other protocols can monitor it to provide a redundancy mechanism. When VRRP is the master router (MR), the operational group is up. The operational group is down for all other VRRP states.
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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owner *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Designate the virtual router instance as owner
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* owner *boolean*
Tree	owner
Description	When configured to **true**, the router designates this virtual router instance as the owner of the virtual router IP addresses. Therefore, this virtual router becomes responsible for forwarding packets sent to the virtual router IP addresses. The owner also assumes the role of master virtual router. When configured to **false**, this virtual router instance is designated as a non-owner.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Suppress the processing of VRRP advertisement messages
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* passive *boolean*
Tree	passive
Description	When configured to **true**, the router identifies this virtual router instance as passive; and therefore the owner of the virtual router IP addresses. A passive virtual router instance does not transmit or receive VRRP advertisement messages and is always in either the master state (if the interface is operationally up) or the init state (if the interface is operationally down). When configured to **false**, this virtual router instance is not identified as passive, meaning that it transmits and receives VRRP advertisement messages.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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ping-reply *boolean*

Synopsis	Allow non-owner master to reply to ICMP echo requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* ping-reply *boolean*
Tree	ping-reply
Description	When configured to **true**, the router allows the non-owner master to reply to ICMP echo requests directed at the IP addresses of the virtual router instance. Any routed interface can receive the ping request. Ping must not have been disabled at the management security level (either on the parental IP interface or on the Ping source host address). When configured to **false**, ICMP echo requests sent to non-owner master virtual IP addresses are silently discarded. Non-owner backup virtual routers never respond to ICMP echo requests, regardless of the configuration of this command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy *reference*

Synopsis	VRRP priority control policy
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* policy *reference*
Tree	policy
Description	This command configures a VRRP priority control policy to associate with the virtual router instance. VRRP priority control policies can override or adjust the base priority value of the virtual router instance, depending on events or conditions within the chassis. An operator can associate a policy with more than one virtual router instance. The priority events within the policy either override or diminish the base priority set with the **priority** command. As priority events clear in the policy, the in-use priority can eventually be restored to the base priority value. For non-owner virtual router instances, if this command is not executed, the base priority is used as the in-use priority.
Reference	**configure** vrrp policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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preempt *boolean*

Synopsis	Allow the VRRP to override an existing non-owner master
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* preempt *boolean*
Tree	preempt
Description	When configured to **true**, this virtual router instance overrides any non-owner master with an in-use message priority value less than the in-use priority value of this virtual router. When configured to **false**, this virtual router only becomes master if the master down timer expires before a VRRP advertisement message is received from another virtual router.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Base priority for the VRRP
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* priority *number*
Tree	priority
Description	This command configures the base router priority for the virtual router instance, which defines the selection order of the virtual router in the master election process. The in-use priority is derived from the base priority. However, the in-use priority is modified by optional VRRP priority control policies. An operator can use VRRP priority control policies to either override or adjust the base priority value depending on events or conditions within the chassis.
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

standby-forwarding *boolean*

Synopsis	Allow standby router to forward traffic
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* standby-forwarding *boolean*
Tree	standby-forwarding

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Description	When configured to **true**, the standby router forwards all traffic. When configured to **false**, the standby router cannot forward traffic sent to the MAC address of the virtual router. However, the standby router still forwards traffic sent to its own MAC address.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-reply *boolean*

Synopsis	Allow non-owner master to reply to Telnet requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* telnet-reply *boolean*
Tree	telnet-reply
Description	When configured to **true**, the router allows the non-owner master to reply to Telnet requests directed at the IP addresses of the virtual router instance. Any routed interface can receive Telnet requests. Telnet cannot be disabled at the management security level (either on the parental IP interface or on the Telnet source host address). When configured to **false**, the router silently discards Telnet requests sent to non-owner master virtual IP addresses.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

traceroute-reply *boolean*

Synopsis	Allow non-owner master to reply to traceroute requests
Context	**configure** service vprn *service-name* interface *interface-name* ipv6 vrrp *number* traceroute-reply *boolean*
Tree	traceroute-reply
Description	When configured to **true**, the router allows a non-owner master to reply to traceroute requests directed to the IP addresses of the virtual router instance. When configured to **false**, the router silently discards traceroute requests sent to non-owner master virtual IP addresses. Traceroute must not have been disabled at the management security level (either on the parental IP interface or the source host address).
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

load-balancing

Synopsis	Enter the **load-balancing** context
Context	**configure** service vprn *service-name* interface *interface-name* load-balancing
Tree	load-balancing
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-load-balancing *keyword*

Synopsis	IP load-balancing algorithm
Context	**configure** service vprn *service-name* interface *interface-name* load-balancing ip-load-balancing *keyword*
Tree	ip-load-balancing
Description	This command specifies whether to include the source address, destination address, or both in LAG or ECMP hash on IP interfaces. Additionally, when the **l4-load-balancing** command is enabled, this command also includes the source or destination port in the hash inputs.
Options	both, destination, source, inner-ip
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

loopback *boolean*

Synopsis	Use interface as a loopback interface
Context	**configure** service vprn *service-name* interface *interface-name* loopback *boolean*
Tree	loopback
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	MAC address for the interface

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Context	**configure** service vprn *service-name* interface *interface-name* mac *mac-unicast-address*
Tree	mac
Description	This command assigns a specific MAC address to an IP interface.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-accounting *boolean*

Synopsis	Enable MAC accounting functionality
Context	**configure** service vprn *service-name* interface *interface-name* mac-accounting *boolean*
Tree	mac-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group *reference*

Synopsis	Operational group to monitor
Context	**configure** service vprn *service-name* interface *interface-name* monitor-oper-group *reference*
Tree	monitor-oper-group
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis-shunting-profile *reference*

Synopsis	Multi-chassis shunting profile name
Context	**configure** service vprn *service-name* interface *interface-name* multi-chassis-shunting-profile *reference*
Tree	multi-chassis-shunting-profile
Description	This command configures the name of a multi-chassis shunting profile to use on public or private tunnel interfaces.
Reference	**configure** service vprn *service-name* ipsec multi-chassis-shunting-profile *named-item*

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Notes	The following elements are part of a choice: **multi-chassis-shunting-profile** or (**dynamic-tunnel-redundant-nexthop** and **static-tunnel-redundant-nexthop**).
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp-hw-assist

Synopsis	Enter the **ptp-hw-assist** context
Context	**configure** service vprn *service-name* interface *interface-name* ptp-hw-assist
Tree	ptp-hw-assist
Description	Commands in this context enable the port-based timestamping assist of PTP packets at the physical interface. This capability is supported on specific hardware. The command may be blocked if not all hardware has the required level of support. Only one interface per physical port can have port-based timestamping assist enabled. This feature cannot be enabled if the physical port supporting the interface is configured as a PTP port.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the PTP timestamping assist
Context	**configure** service vprn *service-name* interface *interface-name* ptp-hw-assist admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

sap [sap-id] *sap*

Synopsis	Enter the **sap** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap*
Tree	sap
Max. instances	1

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**sap-id**] *sap*

Synopsis	SAP ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap*
Tree	sap
String length	1 to 45
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Accounting policy
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SAP
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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bandwidth *number*

Synopsis	SAP bandwidth
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* bandwidth *number*
Tree	bandwidth
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Collect accounting statistics
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *long-description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* description *long-description*
Tree	description
String length	1 to 160
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection *reference*

Synopsis	Distributed CPU protection policy for SAP

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* dist-cpu-protection *reference*
Tree	dist-cpu-protection
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

agg-rate

Synopsis	Enter the **agg-rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress agg-rate
Tree	agg-rate
Notes	The following elements are part of a choice: **agg-rate** or **percent-agg-rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

queue-frame-based-accounting *boolean*

Synopsis	Enable frame based accounting on policers and queues
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress agg-rate queue-frame-based-accounting *boolean*
Tree	queue-frame-based-accounting
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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rate *number*

Synopsis	Enforced aggregate rate for all queues
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress agg-rate rate *number*
Tree	rate
Range	1 to 6400000000
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*

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Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2

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Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-egress

Synopsis	Enter the **sap-egress** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress
Tree	sap-egress
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-egress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-64 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir

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Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2

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Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

[**queue-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-egress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

avg-frame-overhead *decimal-number*

Synopsis	Average packet-to-frame encapsulation overhead
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* avg-frame-overhead *decimal-number*
Tree	avg-frame-overhead
Description	This command configures overrides for the average frame overhead. The overrides supersede the average frame overhead configuration under the queue. For a full description of this command, see the **configure qos network-queue queue avg-frame-overhead** and **configure qos sap-egress queue avg-frame-overhead** contexts.

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Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

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percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID to associate with SAP for mirrored service
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the queue group redirect list policy
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of port queue group
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos sap-egress port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2

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Platforms SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis Scheduler name

Context **configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item*

Tree scheduler

Description This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands.

If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name.

If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.

String length 1 to 32

String format 'string-not-all-spaces' must contain at least one non-space character

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

parent

Synopsis Enter the **parent** context

Context **configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent

Tree parent

Introduced 25.3.R2

Platforms SAR Gen 2

cir-weight *number*

Synopsis Weight used at the within-CIR port priority level

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2

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Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* egress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress filter

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Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-control-policy

Synopsis	Enter the **policer-control-policy** context

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy
Tree	policer-control-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enable the **overrides** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

root

Synopsis	Enter the **root** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root
Tree	root
Introduced	25.3.R2
Platforms	SAR Gen 2

max-rate *(number | keyword)*

Synopsis	Maximum frame-based bandwidth limit
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root max-rate *(number | keyword)*
Tree	max-rate
Range	1 to 6400000000
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority-mbs-thresholds

Synopsis	Enter the **priority-mbs-thresholds** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds
Tree	priority-mbs-thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

min-thresh-separation *(number | keyword)*

Synopsis	Minimum amount of separation buffer space
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds min-thresh-separation *(number | keyword)*
Tree	min-thresh-separation
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

priority [priority-level] *number*

Synopsis	Enter the **priority** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

[**priority-level**] *number*

Synopsis	Priority level
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number*
Tree	priority

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Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs-contribution *(number | keyword)*

Synopsis	Minimum amount of cumulative buffer space allowed
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy overrides root priority-mbs-thresholds priority *number* mbs-contribution *(number | keyword)*
Tree	mbs-contribution
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policer control policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos policer-control-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos policer-control-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sap-ingress

Synopsis	Enter the **sap-ingress** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress
Tree	sap-ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

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fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Queue group template name created on forwarding plane
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Queue group instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress fp-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides
Tree	overrides
Introduced	25.3.R2

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Platforms	SAR Gen 2

policer [policer-id] *reference*

Synopsis	Enter the **policer** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policer-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference*
Tree	policer
Reference	**configure** qos sap-ingress *qos-policy-name* policer *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 268435456
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-byte-offset *number*

Synopsis	Packet size modification for policing information
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* packet-byte-offset *number*
Tree	packet-byte-offset
Range	-32 to 31
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max

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Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

stat-mode *keyword*

Synopsis	Mode of statistics collected by the policer
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides policer *reference* stat-mode *keyword*
Tree	stat-mode
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	25.3.R2
Platforms	SAR Gen 2

queue [queue-id] *reference*

Synopsis	Enter the **queue** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**queue-id**] *reference*

Synopsis	Policer unique ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference*
Tree	queue
Reference	**configure** qos sap-ingress *qos-policy-name* queue *number*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

adaptation-rule

Synopsis	Enter the **adaptation-rule** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule
Tree	adaptation-rule
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *keyword*

Synopsis	Constraint used when deriving the operational CIR value
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule cir *keyword*
Tree	cir
Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *keyword*

Synopsis	Constraint used when deriving the operational PIR value
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* adaptation-rule pir *keyword*
Tree	pir

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Options	max, min, closest
Introduced	25.3.R2
Platforms	SAR Gen 2

cbs *(number | keyword)*

Synopsis	CBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* cbs *(number | keyword)*
Tree	cbs
Range	0 to 2097151
Units	kilobytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-tail

Synopsis	Enter the **drop-tail** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail
Tree	drop-tail
Introduced	25.3.R2
Platforms	SAR Gen 2

low

Synopsis	Enter the **low** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low
Tree	low
Introduced	25.3.R2
Platforms	SAR Gen 2

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percent-reduction-from-mbs *(number | keyword)*

Synopsis	Percentage reduction from the MBS for a queue drop tail
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* drop-tail low percent-reduction-from-mbs *(number | keyword)*
Tree	percent-reduction-from-mbs
Range	0 to 100
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *(number | keyword)*

Synopsis	MBS
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* mbs *(number | keyword)*
Tree	mbs
Range	0 to 2147482624
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent
Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	CIR parameter that overrides parent for queue group

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	PIR parameter that overrides parent for queue group
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

percent-rate

Synopsis	Enter the **percent-rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate
Tree	percent-rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *decimal-number*

Synopsis	CIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate cir *decimal-number*
Tree	cir
Range	0.00 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

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pir *decimal-number*

Synopsis	PIR percent rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* percent-rate pir *decimal-number*
Tree	pir
Range	0.01 to 100.00
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate
Tree	rate
Notes	The following elements are part of a choice: **percent-rate** or **rate**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR rate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR rate

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress overrides queue *reference* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Policy ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos sap-ingress policy-name *reference*
Tree	policy-name
Reference	**configure** qos sap-ingress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

scheduler-policy

Synopsis	Enter the **scheduler-policy** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy
Tree	scheduler-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

overrides

Synopsis	Enter the **overrides** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides
Tree	overrides
Introduced	25.3.R2
Platforms	SAR Gen 2

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scheduler [scheduler-name] *named-item*

Synopsis	Enter the **scheduler** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Introduced	25.3.R2
Platforms	SAR Gen 2

[**scheduler-name**] *named-item*

Synopsis	Scheduler name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item*
Tree	scheduler
Description	This command specifies the scheduler name which is composed of printable 7-bit ASCII characters. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Each scheduler must have a unique name within the context of the scheduler policy. However, the same name can be reused in multiple scheduler policies. If the scheduler name already exists within the policy tier level, the context changes to that scheduler name for the purpose of editing the scheduler commands. If the scheduler name exists within the policy on a different tier, an error occurs and the current context does not change. If the scheduler name does not exist in this or another tier within the scheduler policy, it is assumed that an attempt is being made to create a scheduler of that name. If the provided scheduler name is invalid, a name syntax error occurs, the command does not execute, and the context is not change.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

parent

Synopsis	Enter the **parent** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent

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Tree	parent
Introduced	25.3.R2
Platforms	SAR Gen 2

cir-weight *number*

Synopsis	Weight used at the within-CIR port priority level
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent cir-weight *number*
Tree	cir-weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

weight *number*

Synopsis	Relative weight of the scheduler to feed the queue
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* parent weight *number*
Tree	weight
Range	0 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate
Tree	rate
Introduced	25.3.R2
Platforms	SAR Gen 2

cir *(number | keyword)*

Synopsis	CIR at which the queue it to operate

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate cir *(number | keyword)*
Tree	cir
Range	0 to 6400000000
Units	kilobps
Options	sum, max
Introduced	25.3.R2
Platforms	SAR Gen 2

pir *(number | keyword)*

Synopsis	PIR at which the queue is to operate
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy overrides scheduler *named-item* rate pir *(number | keyword)*
Tree	pir
Range	1 to 6400000000
Units	kilobps
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Scheduler policy name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ingress qos scheduler-policy policy-name *reference*
Tree	policy-name
Reference	**configure** qos scheduler-policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-tunnel [tunnel-name] *interface-name*

Synopsis	Enter the **ip-tunnel** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name*

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Tree	ip-tunnel
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tunnel-name**] *interface-name*

Synopsis	IP tunnel name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name*
Tree	ip-tunnel
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IP tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

backup-remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Backup remote IP address that is applied to this tunnel

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* backup-remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	backup-remote-ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Clear the Do-not-Fragment bit
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* clear-df-bit *boolean*
Tree	clear-df-bit
Description	When configured to **true**, the DF bit is cleared (set to 0) in all payload IP packets associated with the GRE or IPsec tunnel, before any potential fragmentation resulting from the ip-mtu command. This requires a modification of the header checksum. When configured to **false**, clearing of the DF bit is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

delivery-service *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Service to originate and terminate GRE packets
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* delivery-service *service-name*
Tree	delivery-service
Description	This command specifies the service used to originate and terminate the GRE encapsulated packets belonging to the GRE tunnel. The delivery service may be the same service that owns the private tunnel SAP associated with the GRE tunnel. The GRE tunnel does not come up until a valid delivery service is configured.

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String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip [dest-ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **dest-ip**
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dest-ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the remote IP tunnel endpoint
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip

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Description	This command configures the IP address of the remote IP tunnel endpoint. If the remote IP address is not within the subnet of the IP interface associated with the tunnel, the tunnel fails to come up.
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Differentiated Services Code Point (DSCP) name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* dscp *keyword*
Tree	dscp
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

encapsulated-ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet for the IP tunnel. If the packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	bytes

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Introduced	25.3.R2
Platforms	SAR Gen 2

gre-header

WARNING:
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Synopsis	Enter the **gre-header** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header
Tree	gre-header
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of the GRE header in the tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

key

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **key** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key

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Tree	key
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
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Synopsis	Administrative state of the keys in the GRE header
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Receive key of the GRE header
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key receive *number*
Tree	receive
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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send *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Send key of the GRE header
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* gre-header key send *number*
Tree	send
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp-generation** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation
Tree	icmp-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

frag-required

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **frag-required** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required
Tree	frag-required

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
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Synopsis	Administrative state of sending ICMP messages
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending ICMP messages
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required interval *number*
Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMP messages sent
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP messages that can be sent during the period specified by the **interval** command.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp6-generation** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation
Tree	icmp6-generation
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **packet-too-big** context

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big
Tree	packet-too-big
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of sending Packet Too Big messages
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of PTB ICMPv6 messages that can be sent
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big number *number*
Tree	number
Description	This command configures the maximum number of ICMPv6 messages that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

WARNING:
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Synopsis	Maximum interval when PTB messages can be sent
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* icmp6-generation packet-too-big seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IP MTU for the interface
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command specifies the IP MTU for the interface. If the DF bit is not set in the packet, IP packet fragmentation is performed, if necessary, based on this configured value. When unconfigured, all IP packets, regardless of the packet size or DF bit setting, are allowed into the tunnel without fragmentation.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-transport-mode-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec transport mode profile name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* ipsec-transport-mode-profile *reference*
Tree	ipsec-transport-mode-profile
Reference	**configure** ipsec ipsec-transport-mode-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

local-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local IP address of this tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* local-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-ip-address
Description	This command specifies the local IP address to use for the IP tunnel. This configuration applies to the outer IP header of the encapsulated packets. The address must belong to one of the IP subnets associated with the public SAP interface of the tunnel group. The source IP address, the remote IP address, and the backup remote IP address of a tunnel must all belong to the same address family (IPv4 or IPv6). When this command specifies an IPv6 address, it must be a global unicast address.
Introduced	25.3.R2
Platforms	SAR Gen 2

pmtu-discovery-aging *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Time to age out the learned path MTU
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public MTU expiration time. The temporary public MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

private-tcp-mss-adjust *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP Maximum Segment Size (MSS) on the private side
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the TCP MSS to adjust for tunnels on the private side. The value is used to adjust the TCP MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* propagate-pmtu-v4 *boolean*

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Tree	propagate-pmtu-v4
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v6 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of path MTU to IPv6 hosts
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* propagate-pmtu-v6 *boolean*
Tree	propagate-pmtu-v6
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP Maximum Segment Size (MSS) on the public side
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command specifies the TCP MSS for TCP traffic sent from the public network to the private network. The value is used to adjust the TCP MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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reassembly *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum reassembly wait time
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* reassembly *(number | keyword)*
Tree	reassembly
Description	This command configures the maximum time to wait to receive all fragments of a particular IPsec or GRE packet for reassembly.
Range	1 to 5000
Units	milliseconds
Options	use-tunnel-group-setting, none
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote IP address of the tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ip-tunnel *interface-name* remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-ip-address
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-gateway [name] *named-item*

Synopsis	Enter the **ipsec-gateway** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item*
Tree	ipsec-gateway

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Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec gateway name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item*
Tree	ipsec-gateway
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec gateway
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cert

Synopsis	Enter the **cert** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert
Tree	cert
Introduced	25.3.R2
Platforms	SAR Gen 2

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cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert cert-profile *reference*
Tree	cert-profile
Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

Synopsis	Enter the **status-verify** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify
Tree	status-verify
Description	Commands in this context configure certificate revocation status verification.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-result *keyword*

Synopsis	Default result of Certificate Status Verification (CSV)
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify default-result *keyword*
Tree	default-result
Description	This command specifies the default result when both the primary and secondary methods fail to provide an answer.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify primary *keyword*
Tree	primary
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method of CSV to verify the revocation status
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert status-verify secondary *keyword*
Tree	secondary
Options	none, crl, ocsp
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

client-db

Synopsis	Enable the **client-db** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* client-db
Tree	client-db

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Description	Commands in this context configure the IPsec client database. The client database is used to authenticate the IKEv2 dynamic LAN-to-LAN tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

fallback *boolean*

Synopsis	Fall back to the default authentication policy
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* client-db fallback *boolean*
Tree	fallback
Description	When configured to **true**, this command specifies whether the IPsec gateway can fall back to the default authentication policy when the IPsec tunnel authentication request fails to match any clients in the IPsec database. When configured to **false** and the client database lookup fails to return a matched result, the system fails the tunnel setup.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Client database name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* client-db name *reference*
Tree	name
Reference	**configure** ipsec client-db *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-secure-service

Synopsis	Enable the **default-secure-service** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-secure-service
Tree	default-secure-service

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Introduced	25.3.R2
Platforms	SAR Gen 2

interface *interface-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private IPsec tunnel interface name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-secure-service interface *interface-name*
Tree	interface
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Default security service name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-secure-service service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

default-tunnel-template *reference*

Synopsis	Default tunnel policy template for the gateway
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* default-tunnel-template *reference*
Tree	default-tunnel-template

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Reference	**configure** ipsec tunnel-template *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-address-assignment

Synopsis	Enter the **dhcp-address-assignment** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment
Tree	dhcp-address-assignment
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcpv4

Synopsis	Enable the **dhcpv4** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4
Tree	dhcpv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec DHCPv4 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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gi-address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Gateway IP address of DHCPv4 packets sent by the system
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 gi-address *ipv4-unicast-address*
Tree	gi-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

send-release *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Send DHCPv4 release message when IPsec tunnel removed
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 send-release *boolean*
Tree	send-release
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

server

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **server** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 server
Tree	server

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Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv4 server addresses
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 server address *ipv4-unicast-address*
Tree	address
Description	This command specifies DHCPv4 server addresses for the DHCPv4-based address assignment. If multiple server addresses are specified, the first advertised DHCPv4 address received is chosen.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance used to reach the DHCPv4 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv4 server router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcpv6

Synopsis	Enable the **dhcpv6** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6
Tree	dhcpv6
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the DHCPv6 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

link-address *ipv6-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Link address of the relayed DHCPv6 packets
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 link-address *ipv6-unicast-address*
Tree	link-address
Introduced	25.3.R2
Platforms	SAR Gen 2

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send-release *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Send DHCPv6 release message when IPsec tunnel removed
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 send-release *boolean*
Tree	send-release
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

server

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **server** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 server
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DHCPv6 server addresses
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 server address *ipv6-unicast-address*
Tree	address

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Description	This command specifies DHCPv6 server addresses for the DHCPv6-based address assignment. If multiple server addresses are specified, the first advertised DHCPv6 address received is chosen.
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Router instance to reach the DHCPv6 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* dhcp-address-assignment dhcpv6 server router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-policy *reference*

Synopsis	IKE policy ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* ike-policy *reference*
Tree	ike-policy
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

local

Synopsis	Enter the **local** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local

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Tree	local
Introduced	25.3.R2
Platforms	SAR Gen 2

address-assignment

Synopsis	Enable the **address-assignment** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment
Tree	address-assignment
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of local address assignments
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **ipv4** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcp-server *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local DHCPv4 server name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 dhcp-server *named-item*
Tree	dhcp-server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the pool defined in the specified DHCPv4 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Router instance ID for the local DHCPv4 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary-pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the secondary pool defined in the DHCPv4 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv4 secondary-pool *named-item*
Tree	secondary-pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **ipv6** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcp-server *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local DHCPv6 server name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6 dhcp-server *named-item*
Tree	dhcp-server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Secondary pool name defined in the DHCPv6 server
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6 pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-vprn-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Router instance ID hosting the DHCPv6 connection
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local address-assignment ipv6 router-instance *router-instance-base-vprn-loose*
Tree	router-instance
String length	1 to 64
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Local gateway address of the IPsec gateway
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	gateway-address
Introduced	25.3.R2
Platforms	SAR Gen 2

id

Synopsis	Enter the **id** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id
Tree	id
Description	Commands in this context specify the local ID used for the Identification Indicator (IDi) or Identification Responder (IDr) in the IKEv2 tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

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auto

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Select ID based on authentication method in IKE policy
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id auto
Tree	auto
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FQDN as the local ID type
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 address as the local ID type
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id ipv4 *ipv4-unicast-address*

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Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv6 address as the local ID type
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* local id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **auto**, **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

Synopsis	Enter the **max-history-key-records** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* max-history-key-records
Tree	max-history-key-records
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

Synopsis	Maximum number of recent records
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* max-history-key-records esp *number*
Tree	esp
Range	1 to 48

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Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

Synopsis	Maximum number of historical IKE keys recorded
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

mixed-tunnel-mode

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **mixed-tunnel-mode** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* mixed-tunnel-mode
Tree	mixed-tunnel-mode
Description	Commands in this context configure the IPsec gateway to support both remote access and dynamic LAN-to-LAN tunnels. When unconfigured, support of both tunnel types is disabled.
Introduced	25.7.R1
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf*

Synopsis	Pre-shared key for the IPsec gateway
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for the IPsec gateway in a protected format.

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The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 166

Introduced 25.3.R2

Platforms SAR Gen 2

radius

Synopsis Enter the **radius** context

Context **configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* radius

Tree radius

Introduced 25.3.R2

Platforms SAR Gen 2

accounting-policy *reference*

Synopsis RADIUS accounting policy

Context **configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* radius accounting-policy *reference*

Tree accounting-policy

Reference **configure** ipsec radius accounting-policy *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-policy *reference*

Synopsis RADIUS authentication policy

Context **configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* radius authentication-policy *reference*

Tree authentication-policy

Reference **configure** ipsec radius authentication-policy *named-item*

Introduced 25.3.R2

Platforms SAR Gen 2

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ts-list *reference*

Synopsis	TS list used for IKEv2 TS negotiation
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-gateway *named-item* ts-list *reference*
Tree	ts-list
Reference	**configure** ipsec ts-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-tunnel [name] *named-item*

Synopsis	Enter the **ipsec-tunnel** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item*
Tree	ipsec-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	IPsec tunnel name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'name' must not start with a number (e.g. tunnel-1)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IPsec tunnel

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **bfd** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-designate *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Designate IPsec tunnel to carry BFD traffic
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* bfd bfd-designate *boolean*
Tree	bfd-designate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* bfd bfd-liveness
Tree	bfd-liveness
Description	Commands in this context configure a BFD session to provide a heart-beat mechanism for a specified IPsec tunnel. There can be only one BFD session assigned to any given IPsec tunnel, but there can be multiple IPsec tunnels using the same BFD session. BFD controls the state of the association tunnel. If the BFD session goes down, the system brings down the associated non-designated IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

dest-ip *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Destination address used for the BFD session
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* bfd bfd-liveness dest-ip *ipv4-unicast-address*
Tree	dest-ip
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface *interface-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Name of the interface used by the BFD session
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* bfd bfd-liveness interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* bfd bfd-liveness service-name *service-name*
Tree	service-name
Description	This command configures the name of the service where BFD traffic is forwarded to.
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

clear-df-bit *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Reset the DF bit to 0 in all payload IP packets
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* clear-df-bit *boolean*
Tree	clear-df-bit
Description	When configured to **true**, the DF bit is set to 0 in all payload IP packets associated with the IPsec tunnel, before any potential fragmentation occurs.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

copy-traffic-class-upon-decapsulation *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable traffic class copy upon decapsulation
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* copy-traffic-class-upon-decapsulation *boolean*
Tree	copy-traffic-class-upon-decapsulation
Description	When configured to **true**, the system copies the traffic class from the outer tunnel IP packet header to the payload IP packet header in the decapsulating direction (public to private).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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dest-ip [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **dest-ip**
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Private IP address of the remote IP tunnel endpoint
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* dest-ip *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	dest-ip
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

encapsulated-ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum size of the encapsulated tunnel packet
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* encapsulated-ip-mtu *number*
Tree	encapsulated-ip-mtu
Description	This command specifies the maximum size of the encapsulated tunnel packet to the IPsec tunnel, the IP tunnel, or the dynamic tunnels terminated on the IPsec Gateway. If the encapsulated IPv4 or IPv6 tunnel packet exceeds this value, the system fragments the packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2

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Platforms	SAR Gen 2

icmp-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp-generation** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp-generation
Tree	icmp-generation
Description	Commands in this context configure settings for ICMPv4 message generation.
Introduced	25.3.R2
Platforms	SAR Gen 2

frag-required

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **frag-required** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp-generation frag-required
Tree	frag-required
Description	Commands in this context configure the attributes for sending generated ICMP Destination Unreachable "fragmentation needed and DF set" messages (type 3, code 4) back to the source, if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

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Synopsis	Administrative state of sending ICMP messages
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp-generation frag-required admin-state *keyword*
Tree	admin-state
Description	This command configures the administrative state of sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) messages to the source if the received size of the IPv4 packet on the private side exceeds the private MTU size.
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending ICMP messages
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp-generation frag-required interval *number*
Tree	interval
Description	This command configures the interval for sending ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4).
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMP messages that can be sent

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp-generation frag-required message-count *number*
Tree	message-count
Description	This command configures the maximum number of ICMP Destination Unreachable "fragmentation needed, DF set" messages (type 3, code 4) that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp6-generation

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **icmp6-generation** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp6-generation
Tree	icmp6-generation
Description	Commands in this context configure settings for ICMPv6 message generation.
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-too-big

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **packet-too-big** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp6-generation packet-too-big
Tree	packet-too-big
Description	Commands in this context configure the parameters to send ICMPv6 PTB (Packet Too Big) messages on the private side. The system sends PTB messages if a received IPv6 packet on the private side is greater than 1280 bytes and it exceeds the private MTU of the tunnel.

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The private MTU for the tunnel is configured via the **configure router interface ipsec ipsec-tunnel ip-mtu** command for the interface.

Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative state of Packet Too Big message sends
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp6-generation packet-too-big admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval for sending Packet Too Big messages
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp6-generation packet-too-big interval *number*
Tree	interval
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-count *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of ICMPv6 PTB messages that can be sent
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* icmp6-generation packet-too-big message-count *number*
Tree	message-count
Description	This command configures the maximum number of PTB messages that can be sent during the configured interval.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Private MTU of the IPsec tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* ip-mtu *number*
Tree	ip-mtu
Description	This command specifies the private MTU of the IPsec tunnel. The private MTU is used to determine the need for fragmentation before encapsulation of the payload packet.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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key-exchange

WARNING:
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Synopsis	Enter the **key-exchange** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange
Tree	key-exchange
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **dynamic** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic
Tree	dynamic
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Attempt to establish a phase 1 exchange automatically
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic auto-establish *boolean*
Tree	auto-establish
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

auto-establish-sustain *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Sustain the automatic establishment
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic auto-establish-sustain *boolean*
Tree	auto-establish-sustain
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

cert

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **cert** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert
Tree	cert
Description	Commands in this context configure the attributes of the dynamic keying certificate.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert cert-profile *reference*
Tree	cert-profile

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Reference	**configure** ipsec cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **status-verify** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert status-verify
Tree	status-verify
Description	Commands in this context configure attributes of Certificate Status Verification (CSV).
Introduced	25.3.R2
Platforms	SAR Gen 2

default-result *keyword*

Synopsis	Default result for Certificate Status Verification
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert status-verify default-result *keyword*
Tree	default-result
Description	This command specifies the default certificate revocation status result to use when all configured CSV methods fail to return a result.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method of CSV to verify the revocation status
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert status-verify primary *keyword*
Tree	primary

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Description	This command configures the primary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the certificate of the peer.
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert status-verify secondary *keyword*
Tree	secondary
Description	This command specifies the secondary method of Certificate Status Verification (CSV) that is used to verify the revocation status of the peer certificate.
Options	none, crl, ocsp
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic cert trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** ipsec trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

id

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **id** context

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic id
Tree	id
Description	Commands in this context specify the local ID used for IDi or IDr for IKEv2 negotiation. The default behavior depends on the local authentication method as follows: • Psk: local tunnel IP address • Cert-auth: subject of the local certificate
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	FQDN used as the local ID IKE type
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic id fqdn *fully-qualified-domain-name*
Tree	fqdn
String length	1 to 255
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 as the local ID type
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic id ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv6 used as the local IKE ID type
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic id ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ike-policy *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IKE policy ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic ike-policy *reference*
Tree	ike-policy
Description	This command specifies the ID of the IKE policy used for IKE negotiation. The **ipsec-transport-mode-profile** configuration only supports IKEv2.
Reference	**configure** ipsec ike-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipsec-transform *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec transform IDs used by the dynamic key
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic ipsec-transform *reference*
Tree	ipsec-transform
Description	This command specifies IPsec transform IDs used for CHILD_SA negotiation.
Reference	**configure** ipsec ipsec-transform *number*
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

ppk

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ppk** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic ppk
Tree	ppk
Description	Commands in this context configure the PPKs to use for dynamic keying of the IPsec tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

WARNING:
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Synopsis	PPK ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic ppk id *reference*
Tree	id
Reference	**configure** ipsec ppk-list *named-item* ppk *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

list *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PPK list instance name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic ppk list *reference*
Tree	list
Reference	**configure** ipsec ppk-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

pre-shared-key *encrypted-leaf*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Pre-shared key for authentication
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic pre-shared-key *encrypted-leaf*
Tree	pre-shared-key
Description	This command specifies the pre-shared key for authentication in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2

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Platforms	SAR Gen 2

reverse-route-injection

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **reverse-route-injection** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection
Tree	reverse-route-injection
Introduced	26.7.R1
Platforms	SAR Gen 2

metric *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The metric to be used for reverse route injection
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection metric *number*
Tree	metric
Range	0 to 65535
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

preference *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	The preference to be used for reverse route injection

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Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange dynamic reverse-route-injection preference *number*
Tree	preference
Range	0 to 255
Default	0
Introduced	26.7.R1
Platforms	SAR Gen 2

manual

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **manual** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual
Tree	manual
Notes	The following elements are part of a choice: **dynamic** or **manual**.
Introduced	25.3.R2
Platforms	SAR Gen 2

keys [security-association] *number* direction *keyword*

Synopsis	Enter the **keys** list instance
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Description	Commands in this context configure the security association list for the tunnel.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**security-association**] *number*

Synopsis	SA entry ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*

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Tree	keys
Range	1 to 16
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

direction *keyword*

Synopsis	Direction of the IPsec tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword*
Tree	keys
Options	inbound, outbound
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the authentication algorithm
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* authentication-key *hex-string*
Tree	authentication-key
String length	1 to 130
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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encryption-key *hex-string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Key used for the encryption algorithm
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* encryption-key *hex-string*
Tree	encryption-key
String length	1 to 66
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-transform *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Transform entry used by manual SAs
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* ipsec-transform *reference*
Tree	ipsec-transform
Reference	**configure** ipsec ipsec-transform *number*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spi *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

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Synopsis	SPI of inbound and outbound packets
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* key-exchange manual keys *number* direction *keyword* spi *number*
Tree	spi
Description	This command specifies the Security Parameter Index (SPI) used to look up the instruction to verify and decrypt the incoming IPsec packets when the direction is inbound. When the direction is outbound, the SPI is used in the encoding of the outgoing packets. The remote node can use the SPI to look up the instruction to verify and decrypt the packet.
Range	256 to 16383
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-history-key-records

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **max-history-key-records** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* max-history-key-records
Tree	max-history-key-records
Description	Commands in this context configure the settings for recording historical IPsec keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

esp *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of recent records
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* max-history-key-records esp *number*

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Tree	esp
Range	1 to 48
Introduced	25.3.R2
Platforms	SAR Gen 2

ike *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of historical IKE key records
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* max-history-key-records ike *number*
Tree	ike
Range	1 to 3
Introduced	25.3.R2
Platforms	SAR Gen 2

pmtu-discovery-aging *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Aging out time of the learned path MTU
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* pmtu-discovery-aging *number*
Tree	pmtu-discovery-aging
Description	This command configures the temporary public and private MTU expiration time. The temporary MTU is used for MTU propagation.
Range	900 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

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private-tcp-mss-adjust *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) adjustment
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* private-tcp-mss-adjust *number*
Tree	private-tcp-mss-adjust
Description	This command specifies the TCP MSS to adjust for the tunnel on the private side. When configured, the system may use the value to update the MSS option in the received TCP SYN packet on the private side.
Range	512 to 9000
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-pmtu-v4 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv4 hosts
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* propagate-pmtu-v4 *boolean*
Tree	propagate-pmtu-v4
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv4 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-pmtu-v6 *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable propagation of the path MTU to IPv6 hosts
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* propagate-pmtu-v6 *boolean*
Tree	propagate-pmtu-v6
Description	When configured to **true**, the system propagates the path MTU learned from the public side to the private side (IPv6 hosts).
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

public-tcp-mss-adjust *(number | keyword)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP maximum segment size (MSS) on the public network
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* public-tcp-mss-adjust *(number | keyword)*
Tree	public-tcp-mss-adjust
Description	This command configures the MSS for the TCP traffic in an IPsec tunnel that is sent from the public network to the private network. The system may use this value to adjust or insert the MSS option in the TCP SYN packet.
Range	512 to 9000
Units	bytes
Options	auto
Introduced	25.3.R2
Platforms	SAR Gen 2

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replay-window *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Anti-replay window size
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* replay-window *number*
Tree	replay-window
Description	This command specifies the size of an IPsec anti-replay window. If unconfigured, IPsec anti-replay is disabled.
Range	32 | 64 | 128 | 256 | 512
Units	packets
Introduced	25.3.R2
Platforms	SAR Gen 2

security-policy

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **security-policy** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* security-policy
Tree	security-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

id *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPsec security policy ID
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* security-policy id *reference*

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Tree	id
Reference	**configure** service vprn *service-name* ipsec security-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-match *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable strict match of the security policy entry
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* security-policy strict-match *boolean*
Tree	strict-match
Description	When configured to **true**, this command enables strict match of the security policy entry. When a CREATE_CHILD exchange request is received for a static IPsec tunnel, and this request is not a rekey request, ISA matches the received TSi and TSr with the configured security policy. This can be a match only when a received TS (in TSi or TSr) address range matches exactly with the subnet in a security policy entry. If there is no match, the setup fails, and TS_UNACCEPTABLE is sent. If there is a match, but there is an existing CHILD_SA for the matched security policy, the setup fails, and NO_PROPOSAL_CHOSEN is sent. If there is a match, and there is not a CHILD_SA for the matched entry, the subnet is sent in the matched security policy entry as TSi and TSr, and the CHILD_SA is created.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel-endpoint

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable the **tunnel-endpoint** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* tunnel-endpoint
Tree	tunnel-endpoint

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Introduced	25.3.R2
Platforms	SAR Gen 2

delivery-service *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Delivery service name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* tunnel-endpoint delivery-service *service-name*
Tree	delivery-service
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Address used for tunnel of the remote security gateway
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* tunnel-endpoint local-gateway-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-gateway-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

WARNING:
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Synopsis	Remote IP address of the tunnel
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* ipsec-tunnel *named-item* tunnel-endpoint remote-ip-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-ip-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Enter the **lag** context
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-service-site *reference*

Synopsis	Multi service site name
Context	**configure** service vprn *service-name* interface *interface-name* sap *sap* multi-service-site *reference*
Tree	multi-service-site
Reference	**configure** service customer *customer-name* multi-service-site *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id*

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Tree	spoke-sdp
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-policy *reference*

Synopsis	Policy to collect accounting statistics
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* accounting-policy *reference*
Tree	accounting-policy
Reference	**configure** log accounting-policy *number*
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2

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Platforms	SAR Gen 2

collect-stats *boolean*

Synopsis	Allow agent to collect accounting statistics
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* collect-stats *boolean*
Tree	collect-stats
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context

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Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

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network

Synopsis	Enter the **network** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

port-redirect-group

Synopsis	Enter the **port-redirect-group** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group
Tree	port-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the egress port queue group
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

instance *number*

Synopsis	Queue-group instance ID
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress qos network port-redirect-group instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Egress MPLS VC label to send packets to the far end
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* egress vc-label *number*
Tree	vc-label
Range	16 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

entropy-label

Synopsis	Enable the use of entropy labels for spoke SDPs
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* entropy-label
Tree	entropy-label
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hash-label

Synopsis	Enable the **hash-label** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* hash-label
Tree	hash-label
Description	Commands in this context configure the use of hash labels for egress datapaths. For information about hash-label handling, see the "Hash labels" section of the *7705 SAR Gen 2 MPLS Guide*.
Notes	The following elements are part of a choice: **entropy-label** or **hash-label**.
Introduced	25.3.R2
Platforms	SAR Gen 2

signal-capability

Synopsis	Signal hash label capability to the remote PE
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* hash-label signal-capability
Tree	signal-capability
Description	When configured, this command enables the signaling and negotiating of the hash label between the local and remote PE nodes. The signaling process outcome determines whether the local PE inserts the hash label on the user packets. This outcome can override the local PE configuration.
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

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filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos
Tree	qos
Introduced	25.3.R2

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Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group

Synopsis	Enter the **fp-redirect-group** context
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group
Tree	fp-redirect-group
Introduced	25.3.R2
Platforms	SAR Gen 2

group-name *reference*

Synopsis	Name of the forwarding plane queue group template
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group group-name *reference*
Tree	group-name
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Instance of FP ingress queue group for the SDP binding
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network fp-redirect-group instance *number*
Tree	instance

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Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-name *reference*

Synopsis	Network policy ID
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress qos network policy-name *reference*
Tree	policy-name
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Ingress MPLS VC label to send packets to the far end
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

vc-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Type of virtual circuit (VC) associated with the SDP binding
Context	**configure** service vprn *service-name* interface *interface-name* spoke-sdp *sdp-bind-id* vc-type *keyword*
Tree	vc-type

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Options	ether – Ethernet pseudowire associated with SDP binding ipipe – Ipipe pseudowire associated with SDP binding
Default	ether
Introduced	25.3.R2
Platforms	SAR Gen 2

static-tunnel-redundant-nexthop *ipv4-unicast-address*

Synopsis	Address for the static ISA tunnel redundant next-hop
Context	**configure** service vprn *service-name* interface *interface-name* static-tunnel-redundant-nexthop *ipv4-unicast-address*
Tree	static-tunnel-redundant-nexthop
Description	This command configures a redundant next-hop address on a public or private IPsec interface (with a public or private tunnel SAP) for a static IPsec tunnel in 1:1 MC-IPsec. A standby node uses the specified next-hop address to shunt traffic to the master in case it receives traffic destined to a tunnel endpoint address. The standby tunnel group needs to be operationally up for the feature to work. The next-hop address is resolved in the routing table of the corresponding service.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **multi-chassis-shunting-profile** or (**dynamic-tunnel-redundant-nexthop** and **static-tunnel-redundant-nexthop**).
Introduced	25.3.R2
Platforms	SAR Gen 2

tos-marking-state *keyword*

Synopsis	TOS marking state
Context	**configure** service vprn *service-name* interface *interface-name* tos-marking-state *keyword*
Tree	tos-marking-state
Options	trusted, untrusted
Default	trusted
Introduced	25.3.R2
Platforms	SAR Gen 2

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tunnel *boolean*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Enable/disable tunnel interface
Context	**configure** service vprn *service-name* interface *interface-name* tunnel *boolean*
Tree	tunnel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

vas-if-type *keyword*

Synopsis	VAS interface type
Context	**configure** service vprn *service-name* interface *interface-name* vas-if-type *keyword*
Tree	vas-if-type
Options	to-from-access, to-from-network, to-from-both
Introduced	25.3.R2
Platforms	SAR Gen 2

vpls [vpls-name] *named-item-64*

Synopsis	Enter the **vpls** list instance
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64*
Tree	vpls
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**vpls-name**] *named-item-64*

Synopsis	VPLS service
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64*

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Tree	vpls
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

reclassify-using-qos *reference*

Synopsis	Egress QoS policy
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* egress reclassify-using-qos *reference*
Tree	reclassify-using-qos
Reference	**configure** qos sap-egress *qos-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

routed-override-filter

Synopsis	Enter the **routed-override-filter** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* egress routed-override-filter
Tree	routed-override-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

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ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* egress routed-override-filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* egress routed-override-filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn

Synopsis	Enter the **evpn** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn
Tree	evpn
Introduced	25.3.R2
Platforms	SAR Gen 2

arp

Synopsis	Enter the **arp** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp
Tree	arp
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise [route-type] *keyword*

Synopsis	Enter the **advertise** list instance
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword*
Tree	advertise
Description	Commands in this context specify the configuration to allow ARP or ND entries that are installed in the ARP or ND cache to be advertised in EVPN MAC/IP routes. The **learn-dynamic** command must be set to **false** when using this functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword*
Tree	advertise
Description	This command specifies the type of ARP or ND entries that are installed in the ARP or ND cache into EVPN MAC/IP routes.
Options	static, dynamic, evpn-local-es
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-less-routing

Synopsis	Enable the **interface-less-routing** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword* interface-less-routing
Tree	interface-less-routing
Description	Commands in this context enable the entries for advertisement in EVPN MAC/IP advertisement routes that include: • the label1 and route target of the R-VPLS EVPN service • the label2 value and route target of the EVPN interface-less instance in the linked VPRN
Introduced	25.3.R2

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Platforms	SAR Gen 2

bgp-evpn-instance *number*

Synopsis	EVPN interface-less VPRN instance
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword* interface-less-routing bgp-evpn-instance *number*
Tree	bgp-evpn-instance
Description	This command configures the EVPN interface-less BGP instance from which the label and route target are taken when advertising the entry in an EVPN MAC/IP advertisement route.
Range	1
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp advertise *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added separately to dynamic or static ARP or ND entries that are advertised in EVPN MAC/IP routes. This tag can be matched on BGP vsi-export (in the R-VPLS) and BGP peer export policies.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

flood-garp-and-unknown-req *boolean*

Synopsis	Allow CPM originated ARP frames to flood R-VPLS service
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp flood-garp-and-unknown-req *boolean*

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Tree	flood-garp-and-unknown-req
Description	When configured to **true**, the system allows CPM-originated ARP frames to be flooded in the R-VPLS service. Any frames that are data path flooded such as the ARP messages received on a SAP, are flooded irrespective of this command. When configured to **false**, CPM-originated ARP flooding is suppressed.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-dynamic *boolean*

Synopsis	Process ARP or ND messages on EVPN tunnels
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn arp learn-dynamic *boolean*
Tree	learn-dynamic
Description	When configured to **true**, the system processes ARP or ND messages that arrive on EVPN tunnels. When configured to **false**, learning is disabled and table entries are not created for these messages.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

nd

Synopsis	Enter the **nd** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd
Tree	nd
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise [route-type] *keyword*

Synopsis	Enter the **advertise** list instance
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword*

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Tree	advertise
Description	Commands in this context specify the configuration to allow ARP or ND entries that are installed in the ARP or ND cache to be advertised in EVPN MAC/IP routes. The **learn-dynamic** command must be set to **false** when using this functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**route-type**] *keyword*

Synopsis	Type of ARP or ND entries that generate host routes
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword*
Tree	advertise
Description	This command specifies the type of ARP or ND entries that are installed in the ARP or ND cache into EVPN MAC/IP routes.
Options	static, dynamic, evpn-local-es
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-less-routing

Synopsis	Enable the **interface-less-routing** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword* interface-less-routing
Tree	interface-less-routing
Description	Commands in this context enable the entries for advertisement in EVPN MAC/IP advertisement routes that include: • the label1 and route target of the R-VPLS EVPN service • the label2 value and route target of the EVPN interface-less instance in the linked VPRN
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-evpn-instance *number*

Synopsis	EVPN interface-less VPRN instance

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Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword* interface-less-routing bgp-evpn-instance *number*
Tree	bgp-evpn-instance
Description	This command configures the EVPN interface-less BGP instance from which the label and route target are taken when advertising the entry in an EVPN MAC/IP advertisement route.
Range	1
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Tag value used with the host route from an ARP/ND entry
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd advertise *keyword* route-tag *number*
Tree	route-tag
Description	This command specifies the route tag that is added separately to dynamic or static ARP or ND entries that are advertised in EVPN MAC/IP routes. This tag can be matched on BGP vsi-export (in the R-VPLS) and BGP peer export policies.
Range	0 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

learn-dynamic *boolean*

Synopsis	Process ARP or ND messages on EVPN tunnels
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn nd learn-dynamic *boolean*
Tree	learn-dynamic
Description	When configured to **true**, the system processes ARP or ND messages that arrive on EVPN tunnels. When configured to **false**, learning is disabled and table entries are not created for these messages.

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

evpn-tunnel

Synopsis	Enable the **evpn-tunnel** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn-tunnel
Tree	evpn-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-bfd *boolean*

Synopsis	Allow BFD on the EVPN tunnel
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn-tunnel allow-bfd *boolean*
Tree	allow-bfd
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-gateway-address *keyword*

Synopsis	Type of IPv6 gateway address
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn-tunnel ipv6-gateway-address *keyword*
Tree	ipv6-gateway-address
Options	ip, mac
Default	ip
Introduced	25.3.R2
Platforms	SAR Gen 2

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supplementary-broadcast-domain *boolean*

Synopsis	Use the EVPN tunnel as a Supplementary Broadcast Domain
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* evpn-tunnel supplementary-broadcast-domain *boolean*
Tree	supplementary-broadcast-domain
Description	When configured to **true**, this command allows the EVPN tunnel to be used as a Supplementary Broadcast Domain (SBD). The SBD is used in EVPN OISM to advertise the SMET routes and to receive the multicast traffic on egress PEs that are not attached to the source R-VPLS service. When configured to **false**, this command disables EVPN tunnel use as an SBD.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

routed-override-filter

Synopsis	Enter the **routed-override-filter** context
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* ingress routed-override-filter
Tree	routed-override-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name

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Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* ingress routed-override-filter ip *reference*
Tree	ip
Description	This command specifies an IP filter that is applied to routed unicast ingress packets entering the VPLS service and destined to the R-VPLS interface MAC address. The filter overrides any existing ingress IP filter applied to SAPs or SDP bindings for packets associated with the routing IP interface. The override filter is optional and when it is not defined or it is removed, the IP routed packets use the existing ingress IP filter configured on the VPLS endpoint.
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* interface *interface-name* vpls *named-item-64* ingress routed-override-filter ipv6 *reference*
Tree	ipv6
Description	This command specifies an IPv6 filter that is applied to routed unicast ingress packets entering the VPLS service and destined to the R-VPLS interface MAC address. The filter overrides any existing ingress IP filter applied to SAPs or SDP bindings for packets associated with the routing IP interface. The override filter is optional and when it is not defined or it is removed, the IP routed packets use the existing ingress IP filter configured on the VPLS endpoint.
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mirror-interface [interface-name] *interface-name*

Synopsis	Enter the **ip-mirror-interface** list instance
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name*
Tree	ip-mirror-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**interface-name**] *interface-name*

Synopsis	Interface name
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name*
Tree	ip-mirror-interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the interface
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance

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Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SDP binding to the service
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id* ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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vc-label *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Spoke SDP ingress VC label
Context	**configure** service vprn *service-name* ip-mirror-interface *interface-name* spoke-sdp *sdp-bind-id* ingress vc-label *number*
Tree	vc-label
Range	1 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-transport [ipt-id] *port*

Synopsis	Enter the **ip-transport** list instance
Context	**configure** service vprn *service-name* ip-transport *port*
Tree	ip-transport
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**ipt-id**] *port*

Synopsis	IP Transport identifier.
Context	**configure** service vprn *service-name* ip-transport *port*
Tree	ip-transport
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the IP transport.
Context	**configure** service vprn *service-name* ip-transport *port* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	Description for the IP transport.
Context	**configure** service vprn *service-name* ip-transport *port* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

dscp-name *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	dscp name
Context	**configure** service vprn *service-name* ip-transport *port* dscp-name *keyword*
Tree	dscp-name
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Default	ef
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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filter-unknown-host *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enable/Disable unknown host filtering.
Context	**configure** service vprn *service-name* ip-transport *port* filter-unknown-host *boolean*
Tree	filter-unknown-host
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

local-host

Synopsis	Enter the **local-host** context
Context	**configure** service vprn *service-name* ip-transport *port* local-host
Tree	local-host
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ip-address *ipv4-unicast-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPv4 address used for this local host.
Context	**configure** service vprn *service-name* ip-transport *port* local-host ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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port-num *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TCP/UDP port number.
Context	**configure** service vprn *service-name* ip-transport *port* local-host port-num *number*
Tree	port-num
Range	1026 to 49150
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

protocol *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Protocol used.
Context	**configure** service vprn *service-name* ip-transport *port* local-host protocol *keyword*
Tree	protocol
Options	tcp, udp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-host [remote-host-id] *number*

Synopsis	Enter the **remote-host** list instance
Context	**configure** service vprn *service-name* ip-transport *port* remote-host *number*
Tree	remote-host
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**remote-host-id**] *number*

Synopsis	remote host identifer

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Context	**configure** service vprn *service-name* ip-transport *port* remote-host *number*
Tree	remote-host
Range	1 to 2147483647
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *description*

Synopsis	User provided description for the remote host.
Context	**configure** service vprn *service-name* ip-transport *port* remote-host *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ip-address *ipv4-unicast-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 address used for this remote host.
Context	**configure** service vprn *service-name* ip-transport *port* remote-host *number* ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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port-num *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	TCP/UDP port number.
Context	**configure** service vprn *service-name* ip-transport *port* remote-host *number* port-num *number*
Tree	port-num
Range	1 to 65535
Notes	This element is mandatory.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

remote-host-name *string*

Synopsis	User provided name for the remote host.
Context	**configure** service vprn *service-name* ip-transport *port* remote-host *number* remote-host-name *string*
Tree	remote-host-name
String length	1 to 64
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tcp

Synopsis	Enter the **tcp** context
Context	**configure** service vprn *service-name* ip-transport *port* tcp
Tree	tcp
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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inactivity-timeout *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Length of time to wait before disconnecting an inactive TCP connection.
Context	**configure** service vprn *service-name* ip-transport *port* tcp inactivity-timeout *number*
Tree	inactivity-timeout
Range	1 to 65535
Units	seconds
Default	30
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

max-retries *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of max retries.
Context	**configure** service vprn *service-name* ip-transport *port* tcp max-retries *number*
Tree	max-retries
Range	0 to 10
Default	5
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

retry-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Length of time to wait before a TCP retry.
Context	**configure** service vprn *service-name* ip-transport *port* tcp retry-interval *number*

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Tree	retry-interval
Range	0 to 300
Units	seconds
Default	5
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ipsec

Synopsis	Enter the **ipsec** context
Context	**configure** service vprn *service-name* ipsec
Tree	ipsec
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-reverse-route-override-type *keyword*

Synopsis	System behavior for new reverse route
Context	**configure** service vprn *service-name* ipsec allow-reverse-route-override-type *keyword*
Tree	allow-reverse-route-override-type
Description	This command specifies the system behavior when a new reverse route overlaps with an existing reverse route. When unconfigured, the system does not allow a new dynamic LAN-to-LAN tunnel that terminates in the private VPRN service to be created with an overlapping reverse route.
Options	same-idi, any-idi
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis-shunt-interface [name] *reference*

Synopsis	Enter the **multi-chassis-shunt-interface** list instance
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunt-interface *reference*
Tree	multi-chassis-shunt-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *reference*

Synopsis	Multi-chassis shunt interface name
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunt-interface *reference*
Tree	multi-chassis-shunt-interface
Reference	**configure** service vprn *service-name* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop

Synopsis	Enter the **next-hop** context
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunt-interface *reference* next-hop
Tree	next-hop
Description	Commands in this context configure the next hop for shunting over the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next hop address for the shunting interface
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunt-interface *reference* next-hop address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-chassis-shunting-profile [name] *named-item*

Synopsis	Enter the **multi-chassis-shunting-profile** list instance
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunting-profile *named-item*
Tree	multi-chassis-shunting-profile
Max. instances	64

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Multi-chassis shunting profile name
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunting-profile *named-item*
Tree	multi-chassis-shunting-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *reference*

Synopsis	Enter the **peer** list instance
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunting-profile *named-item* peer *reference*
Tree	peer
Max. instances	3
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *reference*

Synopsis	Peer address
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunting-profile *named-item* peer *reference*
Tree	peer
Reference	**configure** redundancy multi-chassis peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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multi-chassis-shunt-interface *reference*

Synopsis	Multi-chassis shunt interface
Context	**configure** service vprn *service-name* ipsec multi-chassis-shunting-profile *named-item* peer *reference* multi-chassis-shunt-interface *reference*
Tree	multi-chassis-shunt-interface
Reference	**configure** service vprn *service-name* ipsec multi-chassis-shunt-interface *reference*
Introduced	25.3.R2
Platforms	SAR Gen 2

overlapping-reverse-route *boolean*

Synopsis	Accept overlapping DL2L tunnel reverse routes
Context	**configure** service vprn *service-name* ipsec overlapping-reverse-route *boolean*
Tree	overlapping-reverse-route
Description	When configured to **true**, the router accepts overlapping DL2L tunnel reverse routes from different tunnels and installs the routes based on the preference, metric, or ECMP configuration. When configured to **false**, the router does not accept overlapping reverse routes and handles the overlapping route according to the **configure service vprn ipsec allow-reverse-route-override-type** command configuration. This command is mutually exclusive with the **allow-reverse-route-override-type** command. See the *7705 SAR Gen 2 Multiservice ISA and ESA Guide* for more information.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

security-policy [id] *number*

Synopsis	Enter the **security-policy** list instance
Context	**configure** service vprn *service-name* ipsec security-policy *number*
Tree	security-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**id**] *number*

Synopsis	IPsec security policy ID
Context	**configure** service vprn *service-name* ipsec security-policy *number*
Tree	security-policy
Range	1 to 32768
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	IPsec security policy entry ID
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number*
Tree	entry
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-ip

Synopsis	Enter the **local-ip** context
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* local-ip
Tree	local-ip
Description	Commands in this context configure the local (from the VPN) IPv4 prefix/mask for the policy entry.

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The system evaluates the local IP as the source IP when traffic is examined in the direction of the flows from private to public and as the destination IP when traffic flows from public to private.

Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-prefix*

Synopsis	Destination IPv4 address of the aggregate route
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* local-ip address *ipv4-prefix*
Tree	address
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* local-ip any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-ipv6

Synopsis	Enter the **local-ipv6** context
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* local-ipv6
Tree	local-ipv6
Description	Commands in this context configure the local (from the VPN) IPv6 prefix/mask for the policy entry.

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The system evaluates the local IP as the source IP when traffic is examined in the direction of the flows from private to public and as the destination IP when traffic flows from public to private.

Introduced 25.3.R2

Platforms SAR Gen 2

address *ipv6-prefix*

Synopsis Destination IPv6 address of the aggregate route

Context **configure** service vprn *service-name* ipsec security-policy *number* entry *number* local-ipv6 address *ipv6-prefix*

Tree address

Notes The following elements are part of a choice: **address** or **any**.

Introduced 25.3.R2

Platforms SAR Gen 2

any *boolean*

Synopsis Use any IP address

Context **configure** service vprn *service-name* ipsec security-policy *number* entry *number* local-ipv6 any *boolean*

Tree any

Default false

Notes The following elements are part of a choice: **address** or **any**.

Introduced 25.3.R2

Platforms SAR Gen 2

remote-ip

Synopsis Enter the **remote-ip** context

Context **configure** service vprn *service-name* ipsec security-policy *number* entry *number* remote-ip

Tree remote-ip

Description Commands in this context configure the remote (from the tunnel) IP prefix/mask for the policy entry.

The system evaluates the remote IP as the source IP when traffic flows public to private and as the destination IP when traffic flows from private to public.

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Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-prefix*

Synopsis	Destination IPv4 address of the aggregate route
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* remote-ip address *ipv4-prefix*
Tree	address
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* remote-ip any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-ipv6

Synopsis	Enter the **remote-ipv6** context
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* remote-ipv6
Tree	remote-ipv6
Description	Commands in this context configure the remote (from the tunnel) IPv6 prefix/mask for the policy entry. The system evaluates the remote IP as the source IP when traffic flows from public to private and as the destination IP when traffic flows from private to public.
Introduced	25.3.R2
Platforms	SAR Gen 2

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address *ipv6-prefix*

Synopsis	Destination IPv6 address of the aggregate route
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* remote-ipv6 address *ipv6-prefix*
Tree	address
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

any *boolean*

Synopsis	Use any IP address
Context	**configure** service vprn *service-name* ipsec security-policy *number* entry *number* remote-ipv6 any *boolean*
Tree	any
Default	false
Notes	The following elements are part of a choice: **address** or **any**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vprn *service-name* ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service vprn *service-name* ipv6 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2

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Platforms	SAR Gen 2

reachable-time *number*

Synopsis	Neighbor reachability detection timer
Context	**configure** service vprn *service-name* ipv6 neighbor-discovery reachable-time *number*
Tree	reachable-time
Range	30 to 3600
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

stale-time *number*

Synopsis	Neighbor discovery cache entry stale time
Context	**configure** service vprn *service-name* ipv6 neighbor-discovery stale-time *number*
Tree	stale-time
Range	60 to 65535
Default	14400
Introduced	25.3.R2
Platforms	SAR Gen 2

router-advertisement

Synopsis	Enter the **router-advertisement** context
Context	**configure** service vprn *service-name* ipv6 router-advertisement
Tree	router-advertisement
Introduced	25.3.R2
Platforms	SAR Gen 2

dns-options

Synopsis	Enable the **dns-options** context
Context	**configure** service vprn *service-name* ipv6 router-advertisement dns-options
Tree	dns-options

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Introduced	25.3.R2
Platforms	SAR Gen 2

rdnss-lifetime *(keyword | number)*

Synopsis	Maximum time over which the RDNSS address is valid
Context	**configure** service vprn *service-name* ipv6 router-advertisement dns-options rdnss-lifetime *(keyword | number)*
Tree	rdnss-lifetime
Description	This command specifies the maximum time that the RDNSS address is used for name resolution by the client.
Range	0 | 4 to 3600
Units	seconds
Options	infinite
Default	infinite
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv6-address*

Synopsis	RAs that are forwarded to IPv6 DNS servers
Context	**configure** service vprn *service-name* ipv6 router-advertisement dns-options server *ipv6-address*
Tree	server
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-int-name] *reference*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference*
Tree	interface
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**ip-int-name**] *reference*

Synopsis	VPRN interface name
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference*
Tree	interface
Reference	**configure** service vprn *service-name* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of router advertisement
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

current-hop-limit *number*

Synopsis	Hop limit advertised in RA messages
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* current-hop-limit *number*
Tree	current-hop-limit
Range	0 to 255
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

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dns-options

Synopsis	Enable the **dns-options** context
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* dns-options
Tree	dns-options
Introduced	25.3.R2
Platforms	SAR Gen 2

include-rdnss *boolean*

Synopsis	Include the RDNSS option in the RA
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* dns-options include-rdnss *boolean*
Tree	include-rdnss
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rdnss-lifetime *(number | keyword)*

Synopsis	Maximum time over which the RDNSS address 25 is valid
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* dns-options rdnss-lifetime *(number | keyword)*
Tree	rdnss-lifetime
Range	0 | 4 to 3600
Units	seconds
Options	infinite
Introduced	25.3.R2
Platforms	SAR Gen 2

server *ipv6-address*

Synopsis	RAs that are forwarded to IPv6 DNS servers
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* dns-options server *ipv6-address*

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Tree	server
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

managed-configuration *boolean*

Synopsis	Set the managed address configuration flag
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* managed-configuration *boolean*
Tree	managed-configuration
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-advertisement-interval *number*

Synopsis	Maximum time between sending advertisement messages
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* max-advertisement-interval *number*
Tree	max-advertisement-interval
Range	4 to 1800
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

min-advertisement-interval *number*

Synopsis	Minimum interval between router advertisement messages
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* min-advertisement-interval *number*
Tree	min-advertisement-interval
Range	3 to 1350

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Units	seconds
Default	200
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	MTU for sending packets to the router
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* mtu *number*
Tree	mtu
Range	1280 to 9800
Introduced	25.3.R2
Platforms	SAR Gen 2

nd-router-preference *keyword*

Synopsis	Default router preference for Router Advertisements
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* nd-router-preference *keyword*
Tree	nd-router-preference
Description	This command configures the default router preference for Router Advertisements (RAs) and allows IPv6 hosts to discover and select a default gateway address by listening to RAs. This feature provides basic traffic engineering functionality for host devices. When this command is applied, the router advertises the respective router preference to the connected host to assist in its selection of the most appropriate default gateway on a link. This extension is backward compatible, both for routers (setting the router preference bits) and hosts (interpreting the router preference bits). These bits are ignored by hosts that do not implement the RFC 4191 functionality by configuring this command. Similarly, hosts that do not implement the RFC 4191 functionality interpret the values sent by devices that do not implement the RFC 4191 extension as a medium preference.
Options	medium, high, low
Default	medium
Introduced	25.3.R2
Platforms	SAR Gen 2

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other-stateful-configuration *boolean*

Synopsis	Set the other configuration flag
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* other-stateful-configuration *boolean*
Tree	other-stateful-configuration
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ipv6-prefix] *ipv6-prefix*

Synopsis	Enter the **prefix** list instance
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* prefix *ipv6-prefix*
Tree	prefix
Max. instances	254
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-prefix*

Synopsis	IPv6 address prefix
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* prefix *ipv6-prefix*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

autonomous *boolean*

Synopsis	Set the autonomous flag value
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* prefix *ipv6-prefix* autonomous *boolean*

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Tree	autonomous
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

on-link *boolean*

Synopsis	Use prefix for on-link determination
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* prefix *ipv6-prefix* on-link *boolean*
Tree	on-link
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

preferred-lifetime *(keyword | number)*

Synopsis	Remaining time that the prefix remains preferred
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* prefix *ipv6-prefix* preferred-lifetime *(keyword | number)*
Tree	preferred-lifetime
Range	0 to 4294967294
Units	seconds
Options	infinite
Default	604800
Introduced	25.3.R2
Platforms	SAR Gen 2

valid-lifetime *(keyword | number)*

Synopsis	Remaining time in which the prefix is still valid
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* prefix *ipv6-prefix* valid-lifetime *(keyword | number)*
Tree	valid-lifetime
Range	0 to 4294967294
Units	seconds

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Options	infinite
Default	2592000
Introduced	25.3.R2
Platforms	SAR Gen 2

reachable-time *number*

Synopsis	Time the router is reachable by other hosts or nodes
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* reachable-time *number*
Tree	reachable-time
Range	0 to 3600000
Units	milliseconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-time *number*

Synopsis	Time to advertise neighbor advertisement messages
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* retransmit-time *number*
Tree	retransmit-time
Range	0 to 1800000
Units	milliseconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

router-lifetime *number*

Synopsis	Lifetime value in neighbor advertisement messages
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* router-lifetime *number*
Tree	router-lifetime
Range	0 | 4 to 9000

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Units	seconds
Default	1800
Introduced	25.3.R2
Platforms	SAR Gen 2

use-virtual-mac *boolean*

Synopsis	Use VRRP virtual MAC address for advertisement message
Context	**configure** service vprn *service-name* ipv6 router-advertisement interface *reference* use-virtual-mac *boolean*
Tree	use-virtual-mac
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

isis [isis-instance] *number*

Synopsis	Enter the **isis** list instance
Context	**configure** service vprn *service-name* isis *number*
Tree	isis
Description	Commands in this context create or configure the IS-IS protocol instance in the VPRN.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**isis-instance**] *number*

Synopsis	IS-IS instance ID
Context	**configure** service vprn *service-name* isis *number*
Tree	isis
Range	0 to 127
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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additional-system-id *system-id-no-default*

Synopsis	Additional system ID
Context	**configure** service vprn *service-name* isis *number* additional-system-id *system-id-no-default*
Tree	additional-system-id
String length	14
String format	'system-id-no-default' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Max. instances	4
Notes	This element is ordered by the user.
Introduced	26.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IS-IS instance
Context	**configure** service vprn *service-name* isis *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-passive-only *boolean*

Synopsis	Advertise prefixes that belong to passive interfaces
Context	**configure** service vprn *service-name* isis *number* advertise-passive-only *boolean*
Tree	advertise-passive-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise-router-capability *keyword*

Synopsis	Router capabilities advertisement to neighbors
Context	**configure** service vprn *service-name* isis *number* advertise-router-capability *keyword*
Tree	advertise-router-capability
Options	area, as
Introduced	25.3.R2
Platforms	SAR Gen 2

all-l1isis *mac-address*

Synopsis	Destination MAC address for all L1 IS-IS routers
Context	**configure** service vprn *service-name* isis *number* all-l1isis *mac-address*
Tree	all-l1isis
Default	01:80:C2:00:00:14
Introduced	25.3.R2
Platforms	SAR Gen 2

all-l2isis *mac-address*

Synopsis	Destination MAC address for all L2 IS-IS routers
Context	**configure** service vprn *service-name* isis *number* all-l2isis *mac-address*
Tree	all-l2isis
Default	01:80:C2:00:00:15
Introduced	25.3.R2
Platforms	SAR Gen 2

area-address *area-address*

Synopsis	Area address portion of the NSAP address
Context	**configure** service vprn *service-name* isis *number* area-address *area-address*
Tree	area-address
String length	2 to 38
String format	'area-address' must match NSAP area-address hex pattern (length 2..38)

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Max. instances	3
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-check *boolean*

Synopsis	Perform authentication check to reject mismatch PDUs
Context	**configure** service vprn *service-name* isis *number* authentication-check *boolean*
Tree	authentication-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key to verify PDUs sent from neighbors
Context	**configure** service vprn *service-name* isis *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key to verify PDUs sent from neighbors in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to sign and authenticate
Context	**configure** service vprn *service-name* isis *number* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-type *keyword*

Synopsis	Authentication type
Context	**configure** service vprn *service-name* isis *number* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

csnp-authentication *boolean*

Synopsis	Authenticate individual IS-IS packets of the CSNP type
Context	**configure** service vprn *service-name* isis *number* csnp-authentication *boolean*
Tree	csnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

csnp-on-p2p *boolean*

Synopsis	Send periodic CSNP PDUs on point-to-point interfaces
Context	**configure** service vprn *service-name* isis *number* csnp-on-p2p *boolean*
Tree	csnp-on-p2p
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

default-route-tag *number*

Synopsis	Route tag for the default route
Context	**configure** service vprn *service-name* isis *number* default-route-tag *number*
Tree	default-route-tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** service vprn *service-name* isis *number* export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** service vprn *service-name* isis *number* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** service vprn *service-name* isis *number* export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies that determine exported routes
Context	**configure** service vprn *service-name* isis *number* export-policy *reference*
Tree	export-policy
Description	This command configures export routing policies for the routes exported from the routing table to IS-IS. If the export policy is undefined, the system does not export non IS-IS routes from the routing table manager to IS-IS.

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If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.

If the **aggregate** command is also configured in the **configure router** context, the aggregation is applied before the export policy is applied.

Routing policies are created in the **configure router policy-options** context.

Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** service vprn *service-name* isis *number* graceful-restart
Tree	graceful-restart
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-mode *boolean*

Synopsis	Enable the Graceful Restart helper for IS-IS
Context	**configure** service vprn *service-name* isis *number* graceful-restart helper-mode *boolean*
Tree	helper-mode
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication *boolean*

Synopsis	Authenticate Hello type IS-IS protocol packets
Context	**configure** service vprn *service-name* isis *number* hello-authentication *boolean*
Tree	hello-authentication
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	IS-IS Hello message padding
Context	**configure** service vprn *service-name* isis *number* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-attached-bit *boolean*

Synopsis	Ignore attached bit on received Layer 1 LSPs
Context	**configure** service vprn *service-name* isis *number* ignore-attached-bit *boolean*
Tree	ignore-attached-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-lsp-errors *boolean*

Synopsis	Ignore LSP packets with errors
Context	**configure** service vprn *service-name* isis *number* ignore-lsp-errors *boolean*
Tree	ignore-lsp-errors
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-narrow-metric *boolean*

Synopsis	Ignore links with narrow metrics
Context	**configure** service vprn *service-name* isis *number* ignore-narrow-metric *boolean*
Tree	ignore-narrow-metric
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

iid-tlv *boolean*

Synopsis	Use IID TLVs with IS-IS multi-instance
Context	**configure** service vprn *service-name* isis *number* iid-tlv *boolean*
Tree	iid-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy names for routes from IGP to route table
Context	**configure** service vprn *service-name* isis *number* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* isis *number* interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	IP interface name

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Context	**configure** service vprn *service-name* isis *number* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the IS-IS interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enter the **bfd-liveness** context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* bfd-liveness
Tree	bfd-liveness
Description	Commands in this context enable the use of bidirectional forwarding (BFD) to control IPv4 and IPv6 adjacencies. Enabling BFD on an IPv4 or IPv6 protocol interface ties the protocol interface state to the BFD session state between the local and remote nodes. BFD must be enabled on the applicable IP interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enable the **ipv4** context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* bfd-liveness ipv4
Tree	ipv4

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Introduced	25.3.R2
Platforms	SAR Gen 2

include-bfd-tlv *boolean*

Synopsis	Enable IS-IS BFD TLVs on the interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* bfd-liveness ipv4 include-bfd-tlv *boolean*
Tree	include-bfd-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enable the **ipv6** context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* bfd-liveness ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

include-bfd-tlv *boolean*

Synopsis	Enable IS-IS BFD TLVs on the interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* bfd-liveness ipv6 include-bfd-tlv *boolean*
Tree	include-bfd-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-advertise-prefix *reference*

Synopsis	Policy to conditionally advertise interface prefixes

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Context	**configure** service vprn *service-name* isis *number* interface *interface-name* conditional-advertise-prefix *reference*
Tree	conditional-advertise-prefix
Description	This command specifies the policy that allows IS-IS, OSPF, and OSPFv3 to selectively advertise system or loopback interface prefixes (including associated SIDs and SRv6 locators) only when conditions defined in the route policy are met. The route policy evaluates the presence or absence of specific routes in the routing table, typically using constructs like route-exists. If the policy evaluates to accept, the interface prefix is advertised; if not, the prefix is suppressed.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.10.R1
Platforms	SAR Gen 2

csnp-interval *number*

Synopsis	Time interval between successive CSN PDUs sent
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* csnp-interval *number*
Tree	csnp-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

default-instance *boolean*

Synopsis	Allow non-MI capable router to establish an adjacency
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* default-instance *boolean*
Tree	default-instance
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-authentication *boolean*

Synopsis	Authenticate Hello type IS-IS protocol packets
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* hello-authentication *boolean*
Tree	hello-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-key *encrypted-leaf*

Synopsis	Authentication key or hash string for Hello PDUs
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* hello-authentication-key *encrypted-leaf*
Tree	hello-authentication-key
Description	This command specifies the authentication key or hash string for Hello PDUs in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-keychain *reference*

Synopsis	Authentication keychain to use for the session
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* hello-authentication-keychain *reference*
Tree	hello-authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-authentication-type *keyword*

Synopsis	Hello authentication type
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* hello-authentication-type *keyword*
Tree	hello-authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	Padding on IS-IS Hello packets
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-type *keyword*

Synopsis	Interface type to broadcast, point-to-point, or to be default
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* interface-type *keyword*
Tree	interface-type
Options	point-to-point, broadcast
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast *boolean*

Synopsis	Enable IPv4 multicast routing for the interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* ipv4-multicast *boolean*
Tree	ipv4-multicast

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast *boolean*

Synopsis	Enable IPv6 unicast routing for the interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* ipv6-unicast *boolean*
Tree	ipv6-unicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

level [level-number] *keyword*

Synopsis	Enter the **level** list instance
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword*
Tree	level
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-number**] *keyword*

Synopsis	ISIS protocol level number
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword*
Tree	level
Options	1, 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hello-authentication-key *encrypted-leaf*

Synopsis	Authentication key for Hello PDUs
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* hello-authentication-key *encrypted-leaf*
Tree	hello-authentication-key
Description	This command configures the authentication key (password) for Hello PDUs. Both the Hello authentication key and the Hello authentication type on a segment must match. If both IS-IS and Hello authentication are configured, Hello messages are validated using Hello authentication. If only IS-IS authentication is configured, it is used to authenticate all IS-IS (including Hello) protocol PDUs. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-keychain *reference*

Synopsis	Authentication keychain to use for the session
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* hello-authentication-keychain *reference*
Tree	hello-authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication-type *keyword*

Synopsis	Hello authentication enabled on the context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* hello-authentication-type *keyword*
Tree	hello-authentication-type
Description	This command enables Hello authentication at the level context. Both the Hello authentication key and the Hello authentication type on a segment must match. The Hello **authentication-key** statement must also be included.
Options	password, message-digest

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Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Interval between Hello messages sent on this level
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* hello-interval *number*
Tree	hello-interval
Range	1 to 20000
Units	seconds
Default	9
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-multiplier *number*

Synopsis	Hello messages missed from neighbor before router declares adjacency down
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* hello-multiplier *number*
Tree	hello-multiplier
Range	2 to 100
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	Padding on IS-IS Hello packets
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4-multicast-metric *number*

Synopsis	IS-IS interface metric applied for IPv4 multicast
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* ipv4-multicast-metric *number*
Tree	ipv4-multicast-metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast-metric *number*

Synopsis	IS-IS interface metric applied for IPv6 unicast
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* ipv6-unicast-metric *number*
Tree	ipv6-unicast-metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	IS-IS interface metric applied for IPv4 unicast
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* metric *number*
Tree	metric
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Passive interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* passive *boolean*
Tree	passive

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Router to become the designated router on a multi-access network
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* priority *number*
Tree	priority
Range	0 to 127
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

sd-offset *number*

Synopsis	Value of the signal degrade offset
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* sd-offset *number*
Tree	sd-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

sf-offset *number*

Synopsis	Value of the signal fail offset
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level *keyword* sf-offset *number*
Tree	sf-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

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level-capability *keyword*

Synopsis	IS-IS levels for this interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* level-capability *keyword*
Tree	level-capability
Options	1, 2, 1/2
Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load balancing weight
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight
Max. range	0 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enter the **loopfree-alternate** context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Exclude Loopfree Alternative at the interface level
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* loopfree-alternate exclude *boolean*
Tree	exclude

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-map

Synopsis	Enable the **policy-map** context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* loopfree-alternate policy-map
Tree	policy-map
Introduced	25.3.R2
Platforms	SAR Gen 2

route-nh-template *reference*

Synopsis	Route next hop policy template name
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* loopfree-alternate policy-map route-nh-template *reference*
Tree	route-nh-template
Reference	**configure** routing-options route-next-hop-policy template *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-pacing-interval *number*

Synopsis	Interval for sending LSPs from interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* lsp-pacing-interval *number*
Tree	lsp-pacing-interval
Range	0 to 65535
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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mesh-group

Synopsis	Enable the **mesh-group** context
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* mesh-group
Tree	mesh-group
Introduced	25.3.R2
Platforms	SAR Gen 2

blocked

Synopsis	Prevent the interface from flooding LSPs
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* mesh-group blocked
Tree	blocked
Notes	The following elements are part of a choice: **blocked** or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Mesh group for the interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* mesh-group value *number*
Tree	value
Range	1 to 2000000000
Notes	The following elements are part of a choice: **blocked** or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Passive interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* passive *boolean*
Tree	passive
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Minimum time between LSP PDU retransmissions on point-to-point interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 65535
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Route tag for IP address of interface
Context	**configure** service vprn *service-name* isis *number* interface *interface-name* tag *number*
Tree	tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast-routing *keyword*

Synopsis	IS-IS topology for IPv4 multicast routing
Context	**configure** service vprn *service-name* isis *number* ipv4-multicast-routing *keyword*
Tree	ipv4-multicast-routing
Options	false, native, mt
Default	native
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4-routing *boolean*

Synopsis	Support IPv4 routing for IS-IS instance
Context	**configure** service vprn *service-name* isis *number* ipv4-routing *boolean*
Tree	ipv4-routing
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-routing *keyword*

Synopsis	Routing topology for IPv6
Context	**configure** service vprn *service-name* isis *number* ipv6-routing *keyword*
Tree	ipv6-routing
Options	false, native, mt
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

level [level-number] *keyword*

Synopsis	Enter the **level** list instance
Context	**configure** service vprn *service-name* isis *number* level *keyword*
Tree	level
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-number**] *keyword*

Synopsis	ISIS protocol level number
Context	**configure** service vprn *service-name* isis *number* level *keyword*
Tree	level
Options	1, 2

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* isis *number* level *keyword* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key to verify PDUs sent on the interface
Context	**configure** service vprn *service-name* isis *number* level *keyword* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication key used to verify PDUs sent by neighboring routers on the interface. Neighboring routers use passwords to authenticate PDUs sent from an interface. For authentication to work, both the authentication key and the authentication type on a segment must match. The **authentication-type** command must also be included. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 422
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to sign and authenticate
Context	**configure** service vprn *service-name* isis *number* level *keyword* authentication-keychain *reference*

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Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type to be used
Context	**configure** service vprn *service-name* isis *number* level *keyword* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

csnp-authentication *boolean*

Synopsis	Enable authentication of CSNP IS-IS protocol packets
Context	**configure** service vprn *service-name* isis *number* level *keyword* csnp-authentication *boolean*
Tree	csnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

default-ipv4-multicast-metric *number*

Synopsis	Default metric for IPv4 unicast
Context	**configure** service vprn *service-name* isis *number* level *keyword* default-ipv4-multicast-metric *number*
Tree	default-ipv4-multicast-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-ipv6-unicast-metric *number*

Synopsis	Default metric for IPv6 unicast
Context	**configure** service vprn *service-name* isis *number* level *keyword* default-ipv6-unicast-metric *number*
Tree	default-ipv6-unicast-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

default-metric *number*

Synopsis	Default metric
Context	**configure** service vprn *service-name* isis *number* level *keyword* default-metric *number*
Tree	default-metric
Range	1 to 16777215
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

external-preference *number*

Synopsis	External route preference for IS-IS level
Context	**configure** service vprn *service-name* isis *number* level *keyword* external-preference *number*
Tree	external-preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-authentication *boolean*

Synopsis	Authenticate Hello type IS-IS protocol packets
Context	**configure** service vprn *service-name* isis *number* level *keyword* hello-authentication *boolean*

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Tree	hello-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-padding *keyword*

Synopsis	Padding on IS-IS Hello packets
Context	**configure** service vprn *service-name* isis *number* level *keyword* hello-padding *keyword*
Tree	hello-padding
Options	adaptive, loose, strict, none
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate-exclude *boolean*

Synopsis	Exclude interface participating in specific IS-IS level in SPF LFA computation
Context	**configure** service vprn *service-name* isis *number* level *keyword* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-mtu-size *number*

Synopsis	LSP MTU size
Context	**configure** service vprn *service-name* isis *number* level *keyword* lsp-mtu-size *number*
Tree	lsp-mtu-size
Range	490 to 9778
Units	bytes
Default	1492
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	External route preference at level
Context	**configure** service vprn *service-name* isis *number* level *keyword* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

psnp-authentication *boolean*

Synopsis	Enable authentication on PSNP IS-IS protocol packets
Context	**configure** service vprn *service-name* isis *number* level *keyword* psnp-authentication *boolean*
Tree	psnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

wide-metrics-only *boolean*

Synopsis	Use wide metrics advertisements in the LSPs
Context	**configure** service vprn *service-name* isis *number* level *keyword* wide-metrics-only *boolean*
Tree	wide-metrics-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

level-capability *keyword*

Synopsis	Routing level for instance
Context	**configure** service vprn *service-name* isis *number* level-capability *keyword*
Tree	level-capability
Options	1, 2, 1/2

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Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

link-group [link-group-name] *named-item*

Synopsis	Enter the **link-group** list instance
Context	**configure** service vprn *service-name* isis *number* link-group *named-item*
Tree	link-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**link-group-name**] *named-item*

Synopsis	Link group name for the IS-IS protocol
Context	**configure** service vprn *service-name* isis *number* link-group *named-item*
Tree	link-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *very-long-description*

Synopsis	Text description
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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level [level-number] *keyword*

Synopsis	Enter the **level** list instance
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword*
Tree	level
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level-number**] *keyword*

Synopsis	ISIS protocol level number
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword*
Tree	level
Options	1, 2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast-metric-offset *number*

Synopsis	Offset value for the IPv4 multicast address family
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* ipv4-multicast-metric-offset *number*
Tree	ipv4-multicast-metric-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-unicast-metric-offset *number*

Synopsis	Offset value for the IPv4 unicast address family
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* ipv4-unicast-metric-offset *number*
Tree	ipv4-unicast-metric-offset

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Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast-metric-offset *number*

Synopsis	Offset value for the IPv6 unicast address family
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* ipv6-unicast-metric-offset *number*
Tree	ipv6-unicast-metric-offset
Range	1 to 16777215
Introduced	25.3.R2
Platforms	SAR Gen 2

member [interface-name] *reference*

Synopsis	Add a list entry for **member**
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* member *reference*
Tree	member
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Interface name for the associated link group
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* member *reference*
Tree	member
Reference	**configure** service vprn *service-name* isis *number* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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oper-members *number*

Synopsis	Minimum number of operational links
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* oper-members *number*
Tree	oper-members
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

revert-members *number*

Synopsis	Minimum number of operational links to return link group to normal state and remove offsets
Context	**configure** service vprn *service-name* isis *number* link-group *named-item* level *keyword* revert-members *number*
Tree	revert-members
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** service vprn *service-name* isis *number* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude

Synopsis	Enter the **exclude** context
Context	**configure** service vprn *service-name* isis *number* loopfree-alternate exclude
Tree	exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-policy *reference*

Synopsis	Policy to exclude prefixes from LFA SPF calculation
Context	**configure** service vprn *service-name* isis *number* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Description	This command specifies the name of the policy for the prefixes to exclude from the LFA SPF calculation. An excluded prefix is not included in LFA calculation regardless of its priority. The prefix tag is, however, used in the main SPF.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-lifetime *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Amount of time during which an LSP is considered valid
Context	**configure** service vprn *service-name* isis *number* lsp-lifetime *number*
Tree	lsp-lifetime
Range	350 to 65535
Units	seconds
Default	1200
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-minimum-remaining-lifetime *number*

Synopsis	Minimum value for the Remaining Lifetime of an LSP
Context	**configure** service vprn *service-name* isis *number* lsp-minimum-remaining-lifetime *number*

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Tree	lsp-minimum-remaining-lifetime
Range	350 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-mtu-size *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	LSP MTU size
Context	**configure** service vprn *service-name* isis *number* lsp-mtu-size *number*
Tree	lsp-mtu-size
Range	490 to 9778
Units	bytes
Default	1492
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-refresh

Synopsis	Enter the **lsp-refresh** context
Context	**configure** service vprn *service-name* isis *number* lsp-refresh
Tree	lsp-refresh
Introduced	25.3.R2
Platforms	SAR Gen 2

half-lifetime *boolean*

Synopsis	Set the refresh interval to always be half the LSP lifetime
Context	**configure** service vprn *service-name* isis *number* lsp-refresh half-lifetime *boolean*
Tree	half-lifetime
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

interval *number*

Synopsis	Refresh timer interval
Context	**configure** service vprn *service-name* isis *number* lsp-refresh interval *number*
Tree	interval
Range	150 to 65535
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

multi-part-tlv

Synopsis	Enter the **multi-part-tlv** context
Context	**configure** service vprn *service-name* isis *number* multi-part-tlv
Tree	multi-part-tlv
Description	Commands in this context configure the behavior of the MP-TLV capability.
Introduced	26.3.R1
Platforms	SAR Gen 2

neighbor *boolean*

Synopsis	Enable origination of multi-part neighbor TLVs
Context	**configure** service vprn *service-name* isis *number* multi-part-tlv neighbor *boolean*
Tree	neighbor
Description	When configured to **true**, the router splits neighbor TLVs (TLV 22 and TLV 222) that exceed the maximum size into MP-TLVs of the same type and key. When configured to **false**, the router truncates neighbor TLVs to fit the maximum size limit.
Default	true
Introduced	26.3.R1
Platforms	SAR Gen 2

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srlg *boolean*

Synopsis	Enable origination of multi-part SRLG TLVs
Context	**configure** service vprn *service-name* isis *number* multi-part-tlv srlg *boolean*
Tree	srlg
Description	When configured to **true**, the router splits SRLG TLVs (TLV 138 and TLV 238) that exceed the maximum size into MP-TLVs of the same type and key. When configured to **false**, the router truncates SRLG TLVs to fit the maximum size limit.
Default	true
Introduced	26.3.R1
Platforms	SAR Gen 2

multi-topology

Synopsis	Enable the **multi-topology** context
Context	**configure** service vprn *service-name* isis *number* multi-topology
Tree	multi-topology
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-multicast *boolean*

Synopsis	Support IPv4 topology (MT3)
Context	**configure** service vprn *service-name* isis *number* multi-topology ipv4-multicast *boolean*
Tree	ipv4-multicast
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-unicast *boolean*

Synopsis	Support multi-topology TLVs
Context	**configure** service vprn *service-name* isis *number* multi-topology ipv6-unicast *boolean*
Tree	ipv6-unicast
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import

Synopsis	Enter the **multicast-import** context
Context	**configure** service vprn *service-name* isis *number* multicast-import
Tree	multicast-import
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Submit IPv4 routes into the multicast RPF of the RTM
Context	**configure** service vprn *service-name* isis *number* multicast-import ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload

Synopsis	Enable the **overload** context
Context	**configure** service vprn *service-name* isis *number* overload
Tree	overload
Introduced	25.3.R2
Platforms	SAR Gen 2

max-metric *boolean*

Synopsis	Advertise transit links with maximum metric instead of setting overload bit
Context	**configure** service vprn *service-name* isis *number* overload max-metric *boolean*
Tree	max-metric
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

overload-export-external *boolean*

Synopsis	Advertise the external routes when router is in overloaded
Context	**configure** service vprn *service-name* isis *number* overload-export-external *boolean*
Tree	overload-export-external
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-export-interlevel *boolean*

Synopsis	Advertise the inter-level routes when router is overloaded
Context	**configure** service vprn *service-name* isis *number* overload-export-interlevel *boolean*
Tree	overload-export-interlevel
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-fib-error-notify-only

Synopsis	Enable the **overload-fib-error-notify-only** context
Context	**configure** service vprn *service-name* isis *number* overload-fib-error-notify-only
Tree	overload-fib-error-notify-only
Description	Commands in this context configure the IS-IS router to send a notification when an overload condition occurs while programming the FIB, instead of advertising the overload condition of the router in the IS-IS LSP. **Note**: Nokia recommends being careful using this command. When you configure the router not to advertise the IS-IS overload state in the IS-IS LSP, other routers are not instructed to take the overloaded router out of the IS-IS forwarding topology and this will cause suboptimal forwarding and non-deterministic behavior on the overloaded router. To avoid changing the default IS-IS overflow behavior, leave this command disabled. When this command is configured, the IS-IS router enters a suboptimal state where it sends only a notification trap; transit traffic can still use the router in this state. The IS-IS router tracks the segment routing prefix SIDs where FIB programming failed. With the **retry** command configured, the router retries programming the segment routing prefix SIDs in the FIB using this tracked information.

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When this command is not configured, during normal operation, the system may force the router to enter an overload state because of a lack of FIB resources. In this state, the router is used to terminate traffic and is not used to transit traffic.

Introduced	25.3.R2
Platforms	SAR Gen 2

retry *number*

Synopsis	Time to retry programming failed entries in the FIB
Context	**configure** service vprn *service-name* isis *number* overload-fib-error-notify-only retry *number*
Tree	retry
Description	This command configures the time the router uses to retry programming the failed entries in the FIB. The **overload-fib-error-notify-only** command must be configured to use the retry timer. The removal of the **overload-fib-error-notify-only** configuration causes the system to program the failed entries in the FIB by triggering an immediate SPF.
Range	10 to 1800
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-on-boot

Synopsis	Enable the **overload-on-boot** context
Context	**configure** service vprn *service-name* isis *number* overload-on-boot
Tree	overload-on-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

max-metric *boolean*

Synopsis	Advertise transit links with maximum metric instead of setting overload bit
Context	**configure** service vprn *service-name* isis *number* overload-on-boot max-metric *boolean*
Tree	max-metric
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time during which the router operates in overload state after reboot
Context	**configure** service vprn *service-name* isis *number* overload-on-boot timeout *number*
Tree	timeout
Range	60 to 1800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

poi-tlv *boolean*

Synopsis	Purge Originator Identification TLV
Context	**configure** service vprn *service-name* isis *number* poi-tlv *boolean*
Tree	poi-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-attributes-tlv *boolean*

Synopsis	Use IS-IS Prefix Attributes TLV to exchange extended IPv4 and IPv6 reachability information
Context	**configure** service vprn *service-name* isis *number* prefix-attributes-tlv *boolean*
Tree	prefix-attributes-tlv
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-limit

Synopsis	Enable the **prefix-limit** context

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Context	**configure** service vprn *service-name* isis *number* prefix-limit
Tree	prefix-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Maximum number of prefixes for IS-IS instance
Context	**configure** service vprn *service-name* isis *number* prefix-limit limit *number*
Tree	limit
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Send warning message when the prefix limit is reached
Context	**configure** service vprn *service-name* isis *number* prefix-limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-timeout *(number | keyword)*

Synopsis	Time in overload state when prefix limit is reached
Context	**configure** service vprn *service-name* isis *number* prefix-limit overload-timeout *(number | keyword)*
Tree	overload-timeout
Range	1 to 1800
Units	seconds
Options	forever
Default	forever
Introduced	25.3.R2

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Platforms	SAR Gen 2

warning-threshold *number*

Synopsis	Threshold value to trigger a warning message to be sent
Context	**configure** service vprn *service-name* isis *number* prefix-limit warning-threshold *number*
Tree	warning-threshold
Range	0 to 100
Units	percent
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

psnp-authentication *boolean*

Synopsis	Authenticate individual IS-IS protocol packets of partial sequence number PDU (PSNP) type
Context	**configure** service vprn *service-name* isis *number* psnp-authentication *boolean*
Tree	psnp-authentication
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-bandwidth *number*

Synopsis	Reference bandwidth for bandwidth relative costing
Context	**configure** service vprn *service-name* isis *number* reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 18446744073709551615
Units	kilobps
Introduced	25.3.R2
Platforms	SAR Gen 2

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rib-priority

Synopsis	Enter the **rib-priority** context
Context	**configure** service vprn *service-name* isis *number* rib-priority
Tree	rib-priority
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** service vprn *service-name* isis *number* rib-priority high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *reference*

Synopsis	List used to select routes processed at higher priority through OSPF route calculation process
Context	**configure** service vprn *service-name* isis *number* rib-priority high prefix-list *reference*
Tree	prefix-list
Reference	**configure** policy-options prefix-list *named-item-64*
Notes	The following elements are part of a choice: **prefix-list** or **tag**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Tag value that is used to match IS-IS routes
Context	**configure** service vprn *service-name* isis *number* rib-priority high tag *number*
Tree	tag
Range	1 to 4294967295
Notes	The following elements are part of a choice: **prefix-list** or **tag**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

router-id *router-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Unique router ID for the ISIS instance
Context	**configure** service vprn *service-name* isis *number* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

standard-multi-instance *boolean*

Synopsis	Enable RFC standards compliant multi-instance behavior
Context	**configure** service vprn *service-name* isis *number* standard-multi-instance *boolean*
Tree	standard-multi-instance
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-adjacency-check *boolean*

Synopsis	Enable strict checking of address families for IS-IS adjacencies
Context	**configure** service vprn *service-name* isis *number* strict-adjacency-check *boolean*
Tree	strict-adjacency-check
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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summary-address [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **summary-address** list instance
Context	**configure** service vprn *service-name* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)*
Tree	summary-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix for the summary address
Context	**configure** service vprn *service-name* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)*
Tree	summary-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

level-capability *keyword*

Synopsis	IS-IS level for the summary address
Context	**configure** service vprn *service-name* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* level-capability *keyword*
Tree	level-capability
Options	1, 2, 1/2
Default	1/2
Introduced	25.3.R2
Platforms	SAR Gen 2

route-tag *number*

Synopsis	Route tag assigned to the summary address
Context	**configure** service vprn *service-name* isis *number* summary-address *(ipv4-prefix | ipv6-prefix)* route-tag *number*
Tree	route-tag

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Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-attached-bit *boolean*

Synopsis	Allow IS-IS to suppress setting attached bit on LSPs
Context	**configure** service vprn *service-name* isis *number* suppress-attached-bit *boolean*
Tree	suppress-attached-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id *system-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System ID
Context	**configure** service vprn *service-name* isis *number* system-id *system-id*
Tree	system-id
String length	14
Default	0000.0000.0000
String format	'system-id' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enter the **timers** context
Context	**configure** service vprn *service-name* isis *number* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

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lsp-wait

Synopsis	Enter the **lsp-wait** context
Context	**configure** service vprn *service-name* isis *number* timers lsp-wait
Tree	lsp-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-initial-wait *number*

Synopsis	Initial LSP generation delay
Context	**configure** service vprn *service-name* isis *number* timers lsp-wait lsp-initial-wait *number*
Tree	lsp-initial-wait
Range	10 to 100000
Units	milliseconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-max-wait *number*

Synopsis	Maximum time between two consecutive LSP occurrences
Context	**configure** service vprn *service-name* isis *number* timers lsp-wait lsp-max-wait *number*
Tree	lsp-max-wait
Range	10 to 120000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsp-second-wait *number*

Synopsis	Delay between first and second LSP generation
Context	**configure** service vprn *service-name* isis *number* timers lsp-wait lsp-second-wait *number*

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Tree	lsp-second-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** service vprn *service-name* isis *number* timers spf-wait
Tree	spf-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-initial-wait *number*

Synopsis	Initial SPF calculation delay after topology change
Context	**configure** service vprn *service-name* isis *number* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-max-wait *number*

Synopsis	Maximum interval amid two consecutive SPF calculations
Context	**configure** service vprn *service-name* isis *number* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Units	milliseconds
Default	10000
Introduced	25.3.R2

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Platforms	SAR Gen 2

spf-second-wait *number*

Synopsis	Hold time between first and second SPF calculations
Context	**configure** service vprn *service-name* isis *number* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-import

Synopsis	Enter the **unicast-import** context
Context	**configure** service vprn *service-name* isis *number* unicast-import
Tree	unicast-import
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Submit IPv4 routes into unicast RTM
Context	**configure** service vprn *service-name* isis *number* unicast-import ipv4 *boolean*
Tree	ipv4
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Submit IPv6 routes into unicast RTM
Context	**configure** service vprn *service-name* isis *number* unicast-import ipv6 *boolean*

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Tree	ipv6
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

label-mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Allocation mode for VPRN service labels
Context	**configure** service vprn *service-name* label-mode *keyword*
Tree	label-mode
Options	vrf, next-hop
Default	vrf
Introduced	25.3.R2
Platforms	SAR Gen 2

local-routes-domain-id *domain-id*

Synopsis	Local routes domain ID
Context	**configure** service vprn *service-name* local-routes-domain-id *domain-id*
Tree	local-routes-domain-id
Description	This command specifies the domain ID that is used in the D-PATH attribute for local routes before those routes are exported to a BGP neighbor using BGP-IPVPN, EVPN-IFF, EVPN-IFL, or PE-CE BGP. A local route is a non-BGP route installed in the VPRN route table and learned using static route or an IGP. The domain IDs are used in the D-PATH attribute, in accordance with draft-ietf-bess-evpn-ipvpn-interworking. Gateway routers modify the D-PATH attribute. A gateway is a PE where a VPRN is instantiated. The VPRN in this case advertises or receives routes from multiple BGP owners (for example, EVPN IFL and BGP IPVPN). Gateways use the D-PATH attribute to detect loops (for received routes where the D-PATH contains a local domain ID) and to make BGP best-path selection decisions based on the D-PATH length (shorter D-PATH is preferred).
String format	'domain-id' must be global-field:local-field (uint32:uint16 range)
Introduced	25.3.R2
Platforms	SAR Gen 2

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log

Synopsis	Enter the **log** context
Context	**configure** service vprn *service-name* log
Tree	log
Introduced	25.3.R2
Platforms	SAR Gen 2

filter [filter-name] *log-filter-name*

Synopsis	Enter the **filter** list instance
Context	**configure** service vprn *service-name* log filter *log-filter-name*
Tree	filter
Max. instances	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**filter-name**] *log-filter-name*

Synopsis	Filter ID
Context	**configure** service vprn *service-name* log filter *log-filter-name*
Tree	filter
String length	1 to 64
String format	'log-filter-name' must be numeric 1..1500 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Default action for the event filter
Context	**configure** service vprn *service-name* log filter *log-filter-name* default-action *keyword*
Tree	default-action
Options	drop, forward

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Default	forward
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* log filter *log-filter-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

named-entry [entry-name] *log-filter-entry-name*

Synopsis	Enter the **named-entry** list instance
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name*
Tree	named-entry
Description	Commands in this context create or edit an event filter entry.
Max. instances	999
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-name**] *log-filter-entry-name*

Synopsis	Entry name
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name*
Tree	named-entry
String length	1 to 64
String format	'log-filter-entry-name' must be numeric 1..999 or alphanumeric not starting with underscore and without trailing spaces

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action for this event filter entry
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* action *keyword*
Tree	action
Options	drop, forward
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match
Tree	match
Introduced	25.3.R2
Platforms	SAR Gen 2

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application

Synopsis	Enter the **application** context
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match application
Tree	application
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *keyword*

Synopsis	Application to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match application eq *keyword*
Tree	eq
Options	application-assurance, aps, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, dot1x, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, python, ripng, openflow, sflow, rpki, pcep, calltrace, satellite, ldap, pppoe-clnt, tls, adp, mgmt-core, macsec, sr-policy, pcap, auto-prov, bier, pfcp, tree-sid, srv6, sr-mpls, anysec
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *keyword*

Synopsis	Application to be filtered out
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match application neq *keyword*
Tree	neq
Options	application-assurance, aps, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, dot1x, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, python, ripng, openflow, sflow, rpki, pcep, calltrace, satellite, ldap,

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	pppoe-clnt, tls, adp, mgmt-core, macsec, sr-policy, pcap, auto-prov, bier, pfcp, tree-sid, srv6, sr-mpls, anysec
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

event

Synopsis	Enter the **event** context
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event
Tree	event
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Log event message to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event eq *number*
Tree	eq
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Number of the log event to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event gt *number*
Tree	gt
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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gte *number*

Synopsis	Number of the log event to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event gte *number*
Tree	gte
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Number of the log event to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event lt *number*
Tree	lt
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lte *number*

Synopsis	Number of the log event to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event lte *number*
Tree	lte
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *number*

Synopsis	Log event message to filter out

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Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match event neq *number*
Tree	neq
Range	1 to 4294967295
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

message

Synopsis	Enter the **message** context
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match message
Tree	message
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *string*

Synopsis	Log event message to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match message eq *string*
Tree	eq
String length	1 to 400
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *string*

Synopsis	Log event message to be filtered out
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match message neq *string*
Tree	neq
String length	1 to 400
Notes	The following elements are part of a choice: **eq** or **neq**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

regexp *boolean*

Synopsis	String comparison to determine if the log event matches the value of pattern
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match message regexp *boolean*
Tree	regexp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

severity

Synopsis	Enter the **severity** context
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity
Tree	severity
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *keyword*

Synopsis	Log event severity level to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity eq *keyword*
Tree	eq
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *keyword*

Synopsis	Log event severity level

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Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity gt *keyword*
Tree	gt
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gte *keyword*

Synopsis	Log event severity level
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity gte *keyword*
Tree	gte
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *keyword*

Synopsis	Log event severity level
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity lt *keyword*
Tree	lt
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lte *keyword*

Synopsis	Log event severity level
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity lte *keyword*
Tree	lte

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Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

neq *keyword*

Synopsis	Log event severity level to filter out
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match severity neq *keyword*
Tree	neq
Options	cleared, indeterminate, critical, major, minor, warning
Notes	The following elements are part of a choice: **eq**, **gt**, **gte**, **lt**, **lte**, or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

subject

Synopsis	Enter the **subject** context
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match subject
Tree	subject
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *named-item*

Synopsis	Log event subject string to match
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match subject eq *named-item*
Tree	eq
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

neq *named-item*

Synopsis	Log event subject string to filter out
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match subject neq *named-item*
Tree	neq
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **eq** or **neq**.
Introduced	25.3.R2
Platforms	SAR Gen 2

regexp *boolean*

Synopsis	String comparison to determine if the log event matches the value of subject
Context	**configure** service vprn *service-name* log filter *log-filter-name* named-entry *log-filter-entry-name* match subject regexp *boolean*
Tree	regexp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

log-id [name] *li-log-name*

Synopsis	Enter the **log-id** list instance
Context	**configure** service vprn *service-name* log log-id *li-log-name*
Tree	log-id
Max. instances	30
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *li-log-name*

Synopsis	Log ID
Context	**configure** service vprn *service-name* log log-id *li-log-name*
Tree	log-id
String length	1 to 64
String format	'li-log-name' must be numeric 1..100 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the log
Context	**configure** service vprn *service-name* log log-id *li-log-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* log log-id *li-log-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination

Synopsis	Enter the **destination** context

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Context	**configure** service vprn *service-name* log log-id *li-log-name* destination
Tree	destination
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf

Synopsis	Enable the **netconf** context
Context	**configure** service vprn *service-name* log log-id *li-log-name* destination netconf
Tree	netconf
Notes	The following elements are part of a choice: **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-entries *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Number of events stored in the NETCONF log
Context	**configure** service vprn *service-name* log log-id *li-log-name* destination netconf max-entries *number*
Tree	max-entries
Range	50 to 3000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

snmp

Synopsis	Enable the **snmp** context
Context	**configure** service vprn *service-name* log log-id *li-log-name* destination snmp
Tree	snmp
Notes	The following elements are part of a choice: **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

max-entries *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Number of events stored in the memory log
Context	**configure** service vprn *service-name* log log-id *li-log-name* destination snmp max-entries *number*
Tree	max-entries
Range	50 to 3000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

syslog *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Index with the information to format event messages sent to a specific SYSLOG collector
Context	**configure** service vprn *service-name* log log-id *li-log-name* destination syslog *reference*
Tree	syslog
Reference	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name*
Notes	The following elements are part of a choice: **netconf**, **snmp**, or **syslog**.
Introduced	25.3.R2
Platforms	SAR Gen 2

filter *reference*

Synopsis	Event filter policy with the log destination
Context	**configure** service vprn *service-name* log log-id *li-log-name* filter *reference*
Tree	filter

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Reference	**configure** service vprn *service-name* log filter *log-filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf-stream *named-item*

Synopsis	Destination NETCONF stream name
Context	**configure** service vprn *service-name* log log-id *li-log-name* netconf-stream *named-item*
Tree	netconf-stream
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

source

Synopsis	Enter the **source** context
Context	**configure** service vprn *service-name* log log-id *li-log-name* source
Tree	source
Introduced	25.3.R2
Platforms	SAR Gen 2

change *boolean*

Synopsis	Collect log events from the change event stream
Context	**configure** service vprn *service-name* log log-id *li-log-name* source change *boolean*
Tree	change
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

debug *boolean*

Synopsis	Collect log events from the debug event stream
Context	**configure** service vprn *service-name* log log-id *li-log-name* source debug *boolean*

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Tree	debug
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

main *boolean*

Synopsis	Collect log events from the main event stream
Context	**configure** service vprn *service-name* log log-id *li-log-name* source main *boolean*
Tree	main
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

security *boolean*

Synopsis	Collect log events from the security event stream
Context	**configure** service vprn *service-name* log log-id *li-log-name* source security *boolean*
Tree	security
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

time-format *keyword*

Synopsis	Time zone output for file log contents and syslog
Context	**configure** service vprn *service-name* log log-id *li-log-name* time-format *keyword*
Tree	time-format
Options	utc, local
Default	utc
Introduced	25.3.R2
Platforms	SAR Gen 2

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snmp-trap-group [log-name] *svc-vprn-snmp-trap-group-name*

Synopsis	Enter the **snmp-trap-group** list instance
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name*
Tree	snmp-trap-group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**log-name**] *svc-vprn-snmp-trap-group-name*

Synopsis	Log ID
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name*
Tree	snmp-trap-group
String length	1 to 17
String format	'svc-vprn-snmp-trap-group-name' must be numeric 1..100 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

trap-target [name] *string*

Synopsis	Enter the **trap-target** list instance

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Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string*
Tree	trap-target
Max. instances	25
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *string*

Synopsis	Trap target name
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string*
Tree	trap-target
String length	1 to 28
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the trap receiver
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* description *description*
Tree	description
String length	1 to 80

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

notify-community *string*

Synopsis	SNMPv1 or SNMPv2c community name string, or SNMPv3 security name, for sending a notification
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* notify-community *string*
Tree	notify-community
String length	1 to 31
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	UDP port number to send messages to this remote SNMP notification collector
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* port *number*
Tree	port
Range	0 | 1 to 65535
Default	162
Introduced	25.3.R2
Platforms	SAR Gen 2

replay *boolean*

Synopsis	Retransmit missed notifications
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* replay *boolean*
Tree	replay
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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security-level *keyword*

Synopsis	Security level at which SNMP notification messages are sent to SNMP notification collector
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* security-level *keyword*
Tree	security-level
Options	no-auth-no-privacy, auth-no-privacy, privacy
Default	no-auth-no-privacy
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	SNMP version to format notification messages sent to this SNMP notification collector
Context	**configure** service vprn *service-name* log snmp-trap-group *svc-vprn-snmp-trap-group-name* trap-target *string* version *keyword*
Tree	version
Options	snmpv1, snmpv2c, snmpv3
Default	snmpv3
Introduced	25.3.R2
Platforms	SAR Gen 2

syslog [syslog-name] *log-vprn-syslog-name*

Synopsis	Enter the **syslog** list instance
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name*
Tree	syslog
Max. instances	30
Introduced	25.3.R2
Platforms	SAR Gen 2

[**syslog-name**] *log-vprn-syslog-name*

Synopsis	Syslog name

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Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name*
Tree	syslog
String length	1 to 64
String format	'log-vprn-syslog-name' must be numeric 1..30 or alphanumeric not starting with underscore and without trailing spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*

Synopsis	IP address or FQDN of the Syslog target host
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* address *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*
Tree	address
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

facility *keyword*

Synopsis	Facility code for messages
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* facility *keyword*
Tree	facility

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Options	kernel, user, mail, systemd, auth, syslogd, printer, netnews, uucp, cron, authpriv, ftp, ntp, logaudit, logalert, cron2, local0, local1, local2, local3, local4, local5, local6, local7
Default	local7
Introduced	25.3.R2
Platforms	SAR Gen 2

hostname

Synopsis	Enter the **hostname** context
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* hostname
Tree	hostname
Description	Commands in this context control how the HOSTNAME field of syslog messages is populated. If no command option is configured, the HOSTNAME is populated with an IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

use-system-name

Synopsis	Enable the **use-system-name** context
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* hostname use-system-name
Tree	use-system-name
Description	Commands in this context configure the system to use the system name configured with the **configure system name** command as the HOSTNAME field of syslog messages. Do not use any spaces in the system name if it is used for the syslog HOSTNAME.
Notes	The following elements are part of a choice: **use-system-name**, **use-vprn-name**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

use-vprn-name

Synopsis	Enable the **use-vprn-name** context
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* hostname use-vprn-name
Tree	use-vprn-name

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Description	Commands in this context configure the system to use the VPRN service name configured with the **configure service vprn service-name** command as the HOSTNAME field of syslog messages sent in this VPRN. Do not use any spaces in the VPRN name if it is used for the syslog HOSTNAME.
Notes	The following elements are part of a choice: **use-system-name**, **use-vprn-name**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

value *named-item-255*

Synopsis	Syslog HOSTNAME field value
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* hostname value *named-item-255*
Tree	value
Description	This command configures a string as the HOSTNAME field of syslog messages. Do not use any spaces in the string used for the syslog HOSTNAME.
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **use-system-name**, **use-vprn-name**, or **value**.
Introduced	25.3.R2
Platforms	SAR Gen 2

log-prefix *(keyword | string)*

Synopsis	Prefix string to log message sent to target syslog host
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* log-prefix *(keyword | string)*
Tree	log-prefix
String length	1 to 32
Options	no-prefix
Default	TMNX
String format	'log-prefix' must contain only printable characters between 33 and 126 ASCII except ':' and '='
Introduced	25.3.R2

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Platforms	SAR Gen 2

port *number*

Synopsis	Destination port when sending syslog over UDP
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* port *number*
Tree	port
Range	0 | 1 to 65535
Default	514
Introduced	25.3.R2
Platforms	SAR Gen 2

severity *keyword*

Synopsis	Severity level threshold for the syslog message
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* severity *keyword*
Tree	severity
Options	emergency, alert, critical, error, warning, notice, info, debug
Default	info
Introduced	25.3.R2
Platforms	SAR Gen 2

timestamp-format *keyword*

Synopsis	Syslog timestamp format
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* timestamp-format *keyword*
Tree	timestamp-format
Options	millisecond – Set timestamp format to milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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tls-client-profile *reference*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	TLS client profile used to encrypt syslog communication
Context	**configure** service vprn *service-name* log syslog *log-vprn-syslog-name* tls-client-profile *reference*
Tree	tls-client-profile
Description	This command specifies the Transport Layer Security (TLS) client profile used to encrypt syslog communications. When configured, syslog messages are sent using TLS. Any change to this command results in a brief interruption of the event log, which may cause the loss of a few syslog messages. When this command is unconfigured, the syslog messages are sent over UDP.
Reference	**configure** system security tls client-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

management

Synopsis	Enable the **management** context
Context	**configure** service vprn *service-name* management
Tree	management
Description	Commands in this context control which management protocols can be used to access the SR OS router via the VPRN router instance. For SNMP control, see the **configure service vprn snmp access** command.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ftp *boolean*

Synopsis	Allow access to the FTP server
Context	**configure** service vprn *service-name* management allow-ftp *boolean*
Tree	allow-ftp
Description	When configured to **true**, this command allows FTP access to the SR OS router via the VPRN router instance.

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When configured to **false**, this command disallows access to the SR OS FTP server.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

allow-grpc *boolean*

Synopsis Allow access to the gRPC server

Context **configure** service vprn *service-name* management allow-grpc *boolean*

Tree allow-grpc

Description When configured to **true**, this command allows access to the gRPC server via the VPRN router instance.

When configured to **false**, this command disallows gRPC server access.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

allow-netconf *boolean*

Synopsis Allow access to the NETCONF server

Context **configure** service vprn *service-name* management allow-netconf *boolean*

Tree allow-netconf

Description When configured to **true**, this command allows NETCONF server access to the SR OS router via the VPRN router instance.

When configured to **false**, this command disallows access to the NETCONF server.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

allow-ssh *boolean*

Synopsis Allow access to the SSH server

Context **configure** service vprn *service-name* management allow-ssh *boolean*

Tree allow-ssh

Description When configured to **true**, this command allows SSH server access to the SR OS router via the VPRN router instance.

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When configured to **false**, this command disallows SSH server access.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-telnet *boolean*

Synopsis	Allow access to the IPv4 Telnet server
Context	**configure** service vprn *service-name* management allow-telnet *boolean*
Tree	allow-telnet
Description	When configured to **true**, this command allows IPv4 Telnet server access to the SR OS router via the VPRN router instance. When configured to **false**, this command disallows access to the IPv4 Telnet server.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-telnet6 *boolean*

Synopsis	Allow access to the Telnet IPv6 server
Context	**configure** service vprn *service-name* management allow-telnet6 *boolean*
Tree	allow-telnet6
Description	When configured to **true**, this command allows IPv6 Telnet server access to the SR OS router via the VPRN router instance. When configured to **false**, this command removes access to the IPv6 Telnet server.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-ipv4-routes

Synopsis	Enter the **maximum-ipv4-routes** context
Context	**configure** service vprn *service-name* maximum-ipv4-routes
Tree	maximum-ipv4-routes
Introduced	25.3.R2

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Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Action when the maximum number of routes, held within a VRF context, is reached
Context	**configure** service vprn *service-name* maximum-ipv4-routes log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Mid-level water marker for the number of routes which this VRF holds
Context	**configure** service vprn *service-name* maximum-ipv4-routes threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of routes that are configured on this virtual router
Context	**configure** service vprn *service-name* maximum-ipv4-routes value *number*
Tree	value
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

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maximum-ipv6-routes

Synopsis	Enter the **maximum-ipv6-routes** context
Context	**configure** service vprn *service-name* maximum-ipv6-routes
Tree	maximum-ipv6-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Action when the maximum number of routes, held within a VRF context, is reached
Context	**configure** service vprn *service-name* maximum-ipv6-routes log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Mid-level water marker for the number of routes which this VRF holds
Context	**configure** service vprn *service-name* maximum-ipv6-routes threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of routes that are configured on this virtual router
Context	**configure** service vprn *service-name* maximum-ipv6-routes value *number*
Tree	value

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Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-maximum-routes

Synopsis	Enter the **mc-maximum-routes** context
Context	**configure** service vprn *service-name* mc-maximum-routes
Tree	mc-maximum-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Log and allow learning of new multicast routes
Context	**configure** service vprn *service-name* mc-maximum-routes log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *number*

Synopsis	Maximum multicast routes which the VRF holds
Context	**configure** service vprn *service-name* mc-maximum-routes threshold *number*
Tree	threshold
Range	1 to 100
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

value *number*

Synopsis	Maximum multicast routes configured on virtual router
Context	**configure** service vprn *service-name* mc-maximum-routes value *number*

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Tree	value
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

mld

Synopsis	Enable the **mld** context
Context	**configure** service vprn *service-name* mld
Tree	mld
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of MLD
Context	**configure** service vprn *service-name* mld admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-if-query-source-address *ipv6-unicast-or-linklocal-address*

Synopsis	Source address in queries for group interfaces when not configured at group interface level
Context	**configure** service vprn *service-name* mld group-if-query-source-address *ipv6-unicast-or-linklocal-address*
Tree	group-if-query-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [ip-interface-name] *interface-name*

Synopsis	Enter the **interface** list instance

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Context	**configure** service vprn *service-name* mld interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* mld interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the MLD interface
Context	**configure** service vprn *service-name* mld interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy to filter MLD packets
Context	**configure** service vprn *service-name* mld interface *interface-name* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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maximum-number-group-sources *number*

Synopsis	Maximum number of group sources for this interface
Context	**configure** service vprn *service-name* mld interface *interface-name* maximum-number-group-sources *number*
Tree	maximum-number-group-sources
Description	This command configures the maximum number of group sources for which IGMP or MLD can have local receiver information based on received IGMP or MLD reports on this interface. When this configuration is changed dynamically to a lower value than the currently accepted number of group sources, the group sources that are already accepted are not deleted. Only new group sources are not allowed.
Range	1 to 32000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-groups *number*

Synopsis	Maximum number of groups for this interface
Context	**configure** service vprn *service-name* mld interface *interface-name* maximum-number-groups *number*
Tree	maximum-number-groups
Range	1 to 16000
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-number-sources *number*

Synopsis	Maximum number of sources that are allowed per group
Context	**configure** service vprn *service-name* mld interface *interface-name* maximum-number-sources *number*
Tree	maximum-number-sources
Range	1 to 1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vprn *service-name* mld interface *interface-name* query-interval *number*
Tree	query-interval
Range	2 to 1024
Introduced	25.3.R2
Platforms	SAR Gen 2

query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vprn *service-name* mld interface *interface-name* query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vprn *service-name* mld interface *interface-name* query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Introduced	25.3.R2
Platforms	SAR Gen 2

router-alert-check *boolean*

Synopsis	Enable router alert checking for IGMP or MLD messages
Context	**configure** service vprn *service-name* mld interface *interface-name* router-alert-check *boolean*
Tree	router-alert-check

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context
Context	**configure** service vprn *service-name* mld interface *interface-name* ssm-translate
Tree	ssm-translate
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv6-multicast-address* end *ipv6-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** service vprn *service-name* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv6-multicast-address*

Synopsis	Lower bound of the group range
Context	**configure** service vprn *service-name* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv6-multicast-address*

Synopsis	Upper bound of the group range
Context	**configure** service vprn *service-name* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*

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Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vprn *service-name* mld interface *interface-name* ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vprn *service-name* mld interface *interface-name* static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

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group [group-address] *ipv6-multicast-address*

Synopsis	Enter the **group** list instance
Context	**configure** service vprn *service-name* mld interface *interface-name* static group *ipv6-multicast-address*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-address**] *ipv6-multicast-address*

Synopsis	Group address of multicast channel
Context	**configure** service vprn *service-name* mld interface *interface-name* static group *ipv6-multicast-address*
Tree	group
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* mld interface *interface-name* static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vprn *service-name* mld interface *interface-name* static group *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vprn *service-name* mld interface *interface-name* static group *ipv6-multicast-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv6-multicast-address*

Synopsis	Lower bound of the static multicast group
Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv6-multicast-address*

Synopsis	Upper bound of the static multicast group

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Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

step *ipv6-address*

Synopsis	Step interval for the group-range addresses
Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address*
Tree	group-range
MD-CLI default	::1
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address* source *ipv6-unicast-address*
Tree	source
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address* source *ipv6-unicast-address*
Tree	source

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

starg

Synopsis	any source address (*,G)
Context	**configure** service vprn *service-name* mld interface *interface-name* static group-range start *ipv6-multicast-address* end *ipv6-multicast-address* step *ipv6-address* starg
Tree	starg
Notes	The following elements are part of a mandatory choice: **source** or **starg**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	MLD protocol version
Context	**configure** service vprn *service-name* mld interface *interface-name* version *keyword*
Tree	version
Options	1, 2
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

query-interval *number*

Synopsis	Time between two consecutive host-query messages
Context	**configure** service vprn *service-name* mld query-interval *number*
Tree	query-interval
Range	2 to 1024
Units	seconds
Default	125
Introduced	25.3.R2
Platforms	SAR Gen 2

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query-last-member-interval *number*

Synopsis	Time between group-specific query messages
Context	**configure** service vprn *service-name* mld query-last-member-interval *number*
Tree	query-last-member-interval
Range	1 to 1023
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

query-response-interval *number*

Synopsis	Time to wait for a response to the host-query messages
Context	**configure** service vprn *service-name* mld query-response-interval *number*
Tree	query-response-interval
Range	1 to 1023
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

robust-count *number*

Synopsis	Number of retries after expected message loss
Context	**configure** service vprn *service-name* mld robust-count *number*
Tree	robust-count
Range	2 to 10
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-translate

Synopsis	Enter the **ssm-translate** context

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Context	**configure** service vprn *service-name* mld ssm-translate
Tree	ssm-translate
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range start *ipv6-multicast-address* end *ipv6-multicast-address*

Synopsis	Enter the **group-range** list instance
Context	**configure** service vprn *service-name* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

start *ipv6-multicast-address*

Synopsis	Lower bound of the group range
Context	**configure** service vprn *service-name* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv6-multicast-address*

Synopsis	Upper bound of the group range
Context	**configure** service vprn *service-name* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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source [source-address] *ipv6-unicast-address*

Synopsis	Add a list entry for **source**
Context	**configure** service vprn *service-name* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-address**] *ipv6-unicast-address*

Synopsis	Source IP address
Context	**configure** service vprn *service-name* mld ssm-translate group-range start *ipv6-multicast-address* end *ipv6-multicast-address* source *ipv6-unicast-address*
Tree	source
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mss-adjust

Synopsis	Enable the **mss-adjust** context
Context	**configure** service vprn *service-name* mss-adjust
Tree	mss-adjust
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-group *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	NAT group used for TCP-MSS adjustment
Context	**configure** service vprn *service-name* mss-adjust nat-group *number*

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Tree	nat-group
Max. range	0 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

segment-size *number*

Synopsis	TCP-MSS option value in transmitted TCP SYN requests
Context	**configure** service vprn *service-name* mss-adjust segment-size *number*
Tree	segment-size
Range	160 to 10240
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat

Synopsis	Enable the **nat** context
Context	**configure** service vprn *service-name* nat
Tree	nat
Introduced	25.3.R2
Platforms	SAR Gen 2

inside

Synopsis	Enter the **inside** context
Context	**configure** service vprn *service-name* nat inside
Tree	inside
Introduced	25.3.R2
Platforms	SAR Gen 2

large-scale

Synopsis	Enter the **large-scale** context

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Context	**configure** service vprn *service-name* nat inside large-scale
Tree	large-scale
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-policy *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	NAT policy name for LSN
Context	**configure** service vprn *service-name* nat inside large-scale nat-policy *reference*
Tree	nat-policy
Reference	**configure** service nat nat-policy *external-named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

nat44

Synopsis	Enter the **nat44** context
Context	**configure** service vprn *service-name* nat inside large-scale nat44
Tree	nat44
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-prefix [ip-prefix-length] *ipv4-unicast-prefix*

Synopsis	Enter the **destination-prefix** list instance
Context	**configure** service vprn *service-name* nat inside large-scale nat44 destination-prefix *ipv4-unicast-prefix*
Tree	destination-prefix
Max. instances	6144
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-prefix-length**] *ipv4-unicast-prefix*

Synopsis	IP prefix for the destination address
Context	**configure** service vprn *service-name* nat inside large-scale nat44 destination-prefix *ipv4-unicast-prefix*
Tree	destination-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-policy *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	NAT policy
Context	**configure** service vprn *service-name* nat inside large-scale nat44 destination-prefix *ipv4-unicast-prefix* nat-policy *reference*
Tree	nat-policy
Reference	**configure** service nat nat-policy *external-named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

deterministic

Synopsis	Enter the **deterministic** context
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic
Tree	deterministic
Introduced	25.3.R2
Platforms	SAR Gen 2

address-map [from] *ipv4-address* to *ipv4-address* nat-policy *reference*

Synopsis	Enter the **address-map** list instance
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*

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Tree	address-map
Description	Commands in this context map inside IPv4 addresses of deterministic NAT44 subscribers to the outside IPv4 addresses in a NAT pool. This context is only applicable to deterministic NAT44 with a single ESA-VM in a NAT-group. The number of subscribers per outside IPv4 address is flexible and not restricted to a discrete range governed by the 2^n rule.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**from**] *ipv4-address*

Synopsis	First IP address of inside IP NAT range
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*
Tree	address-map
Description	This command specifies the starting IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

to *ipv4-address*

Synopsis	Ending IP address of inside IP NAT range
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*
Tree	address-map
Description	This command specifies the ending IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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nat-policy *reference*

Synopsis	NAT policy name for LSN
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference*
Tree	address-map
Reference	**configure** service nat nat-policy *external-named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of address map
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

outside-range *ipv4-address*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	First outside IP address in NAT pool
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic address-map *ipv4-address* to *ipv4-address* nat-policy *reference* outside-range *ipv4-address*
Tree	outside-range
Description	This command specifies the first outside IP address in the NAT pool. The last outside IP address is determined by the number of subscribers mapped to an outside IP address via the **configure router nat outside pool large-scale subscriber-limit** and **configure service vprn nat outside pool large-scale subscriber-limit** commands.

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-map [source-prefix] *ipv4-unicast-prefix* nat-policy *reference*

Synopsis	Enter the **prefix-map** list instance
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference*
Tree	prefix-map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**source-prefix**] *ipv4-unicast-prefix*

Synopsis	Traffic sent from sources within this prefix will be NATed
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference*
Tree	prefix-map
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-policy *reference*

Synopsis	NAT policy
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference*
Tree	prefix-map
Reference	**configure** service nat nat-policy *external-named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the prefix
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

map [from] *ipv4-address* to *ipv4-address*

Synopsis	Enter the **map** list instance
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address*
Tree	map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**from**] *ipv4-address*

Synopsis	First IP address of inside IP NAT range
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address*
Tree	map
Description	This command specifies the starting IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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to *ipv4-address*

Synopsis	Ending IP address of inside IP NAT range
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address*
Tree	map
Description	This command specifies the ending IPv4 address, IPv6 address, or IPv6 prefix on the inside IP address range.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

first-outside-address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Outside IP address mapped to inside IP address range
Context	**configure** service vprn *service-name* nat inside large-scale nat44 deterministic prefix-map *ipv4-unicast-prefix* nat-policy *reference* map *ipv4-address* to *ipv4-address* first-outside-address *ipv4-address*
Tree	first-outside-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-subscriber-limit *number*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Ingress hashing for load distribution across ESA-VMs

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Context	**configure** service vprn *service-name* nat inside large-scale nat44 max-subscriber-limit *number*
Tree	max-subscriber-limit
Description	This command configures the maximum number of classic LSN subscribers within a consecutive range of IP addresses that are processed by the same ESA-VM. It directly defines the granularity of upstream traffic distribution across ESA-VMs within the scope of an inside routing context. The ingress hashing mechanism used for traffic distribution is based on source IPv4 addresses or prefixes.
Range	1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | 32768 | 65536
Introduced	25.3.R2
Platforms	SAR Gen 2

outside

Synopsis	Enter the **outside** context
Context	**configure** service vprn *service-name* nat outside
Tree	outside
Introduced	25.3.R2
Platforms	SAR Gen 2

filters

Synopsis	Enter the **filters** context
Context	**configure** service vprn *service-name* nat outside filters
Tree	filters
Introduced	25.3.R2
Platforms	SAR Gen 2

downstream

Synopsis	Enter the **downstream** context
Context	**configure** service vprn *service-name* nat outside filters downstream
Tree	downstream
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* nat outside filters downstream ipv4 *reference*
Tree	ipv4
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

upstream

Synopsis	Enter the **upstream** context
Context	**configure** service vprn *service-name* nat outside filters upstream
Tree	upstream
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* nat outside filters upstream ipv4 *reference*
Tree	ipv4
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	MTU for downstream traffic
Context	**configure** service vprn *service-name* nat outside mtu *number*
Tree	mtu
Range	512 to 9000
Introduced	25.3.R2
Platforms	SAR Gen 2

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pool [name] *named-item*

Synopsis	Enter the **pool** list instance
Context	**configure** service vprn *service-name* nat outside pool *named-item*
Tree	pool
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	NAT pool name
Context	**configure** service vprn *service-name* nat outside pool *named-item*
Tree	pool
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address-range [start] *ipv4-unicast-address* end *ipv4-unicast-address*

Synopsis	Enter the **address-range** list instance
Context	**configure** service vprn *service-name* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
Max. instances	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

[**start**] *ipv4-unicast-address*

Synopsis	Lower bound of the NAT address range

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Context	**configure** service vprn *service-name* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *ipv4-unicast-address*

Synopsis	Upper bound of the NAT address range
Context	**configure** service vprn *service-name* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address*
Tree	address-range
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

drain *boolean*

Synopsis	Start or stop draining this NAT address range
Context	**configure** service vprn *service-name* nat outside pool *named-item* address-range *ipv4-unicast-address* end *ipv4-unicast-address* drain *boolean*

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Tree	drain
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the outside routing NAT pool
Context	**configure** service vprn *service-name* nat outside pool *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

applications

Synopsis	Enter the **applications** context
Context	**configure** service vprn *service-name* nat outside pool *named-item* applications
Tree	applications
Introduced	25.3.R2
Platforms	SAR Gen 2

agnostic *boolean*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	NAT pool to create in the outside routing context
Context	**configure** service vprn *service-name* nat outside pool *named-item* applications agnostic *boolean*
Tree	agnostic

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-interface-ip *boolean*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Use an IPv4 interface for NAT
Context	**configure** service vprn *service-name* nat outside pool *named-item* applications use-interface-ip *boolean*
Tree	use-interface-ip
Description	When configured to **true**, the router uses the IPv4 address of a NAT enabled local interface as the public IP address, within the same outside (public) routing context. Only one such NAT'd interface can be defined per outside routing context.
Default	false
Introduced	25.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* nat outside pool *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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icmp-echo-reply *boolean*

Synopsis	Allow NAT pool IP addresses to respond to ICMP PINGs
Context	**configure** service vprn *service-name* nat outside pool *named-item* icmp-echo-reply *boolean*
Tree	icmp-echo-reply
Description	This command allows IP addresses in the NAT pool to respond to ICMP Echo requests (PINGs). The configuration can be toggled while the pool is in use. In L2-aware NAT when port-block-extensions is disabled, the reply from an outside IP address is generated only when this IP address has at least one host (binding) behind it. In L2-aware NAT when port-block-extensions is enabled, the reply from an outside IP address is generated regardless if a binding is present. In LSN, the reply from an outside IP address is generated regardless if a binding is present.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

large-scale

Synopsis	Enter the **large-scale** context
Context	**configure** service vprn *service-name* nat outside pool *named-item* large-scale
Tree	large-scale
Introduced	25.3.R2
Platforms	SAR Gen 2

subscriber-limit *number*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Maximum number of subscribers per IP address
Context	**configure** service vprn *service-name* nat outside pool *named-item* large-scale subscriber-limit *number*
Tree	subscriber-limit
Range	1 to 65535 | 4294967295
Introduced	25.3.R2

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Platforms	SAR Gen 2

use-interface-ip

Synopsis	Enter the **use-interface-ip** context
Context	**configure** service vprn *service-name* nat outside pool *named-item* large-scale use-interface-ip
Tree	use-interface-ip
Introduced	25.7.R1
Platforms	SAR Gen 2

cpm-reserved-ports *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Number of ports per protocol reserved for CPM traffic
Context	**configure** service vprn *service-name* nat outside pool *named-item* large-scale use-interface-ip cpm-reserved-ports *number*
Tree	cpm-reserved-ports
Description	This command configures the router to reserve ports specifically for local (CPM) traffic. On the public IPv4 address of a NAT interface, the ports are shared between CPM traffic and transit traffic passing through the node. This reservation ensures that NAT traffic destined for the local node (CPM traffic) is guaranteed a minimum number of available ports, even if the public IPv4 port pool becomes exhausted.
Range	0 to 65535
Default	10
Introduced	25.7.R1
Platforms	SAR Gen 2

use-well-known-ports *boolean*

Synopsis	Enable dynamic allocation of well-known ports
Context	**configure** service vprn *service-name* nat outside pool *named-item* large-scale use-interface-ip use-well-known-ports *boolean*
Tree	use-well-known-ports

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Description	When configured to **true**, the router configures the dynamic allocation of well-known ports for interface-based NAT. When configured to **false**, well-known ports are not dynamically allocated for either transit traffic or traffic initiated from the control plane. This command can only be configured when the **configure service vprn nat outside pool application use-interface-ip** is set to **true**. Ports within the well-known range (0-1023) can still be allocated statically using static port forwarding.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

mode *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Mode of operation of this NAT address pool
Context	**configure** service vprn *service-name* nat outside pool *named-item* mode *keyword*
Tree	mode
Options	auto, napt, one-to-one
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-group *reference*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Create a NAT group
Context	**configure** service vprn *service-name* nat outside pool *named-item* nat-group *reference*

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Tree	nat-group
Reference	**configure** isa nat-group *number*
Notes	The following elements are part of a mandatory choice: **nat-group** or **wlan-gw-group**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-forwarding

Synopsis	Enter the **port-forwarding** context
Context	**configure** service vprn *service-name* nat outside pool *named-item* port-forwarding
Tree	port-forwarding
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-block-reservation *boolean*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Reserve dynamic block for subscriber
Context	**configure** service vprn *service-name* nat outside pool *named-item* port-forwarding dynamic-block-reservation *boolean*
Tree	dynamic-block-reservation
Description	When configured to **true**, the system reserves dynamic port block when the first port forward for the subscriber is created. The dynamic port block allocation is logged only if the block is being used and mappings are created. Dynamic port block reservation due to the port forward creation but without any dynamic mapping, is not logged. The reserved port block is released only when the last mapping in the block expires and there are no port forwards associated with the subscriber. The de-allocation log (syslog or RADIUS) is generated when the dynamic port block is completely released. Dynamic port block reservations can be enabled only if the configured maximum number of subscribers per outside IP addresses are less than or equal to the maximum number of configured port blocks per outside IP address. When configured to **false**, dynamic port blocks are not reserved when the first port forward for the subscriber is created.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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range-end *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	End of the wildcard range for port forwards
Context	**configure** service vprn *service-name* nat outside pool *named-item* port-forwarding range-end *number*
Tree	range-end
Description	This command configures the upper boundary of the wildcard port range dedicated to port forwarding in a NAT pool, whereas the **range-start** command configures the lower boundary (the starting port) of the wildcard port range dedicated to port forwarding in a NAT pool. If unconfigured, the **range-end** implicit value is set to 1023, that represents the end of the well-known port range that is always enabled. Port forwards are supported only in pools in NAPT mode. Pools in 1:1 mode do not support port-forwards.
Range	0 | 1023 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

port-reservation

Synopsis	Enter the **port-reservation** context
Context	**configure** service vprn *service-name* nat outside pool *named-item* port-reservation
Tree	port-reservation
Introduced	25.3.R2
Platforms	SAR Gen 2

port-blocks *number*

WARNING:
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WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Port block size for NAT subscribers
Context	**configure** service vprn *service-name* nat outside pool *named-item* port-reservation port-blocks *number*
Tree	port-blocks
Description	In CGN, this command specifies the number of port-blocks per outside IP address in the NAT pool. The available ports per outside IP address (the end port minus the upper bound value of the static port-forwarding range) are divided into the number of port blocks specified in this command. This implicitly determines the size of each port block. For L2-aware NAT, this command can be configured only if the port block extensions (extended port blocks) are disabled. You must disable the **l2-aware port-block-extension** hierarchy in the NAT pool.
Range	0 to 64512
Notes	The following elements are part of a choice: **port-blocks** or **ports**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ports *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

Synopsis	Size of the port block for NAT subscribers
Context	**configure** service vprn *service-name* nat outside pool *named-item* port-reservation ports *number*
Tree	ports
Description	For carrier-grade NAT (CGN), this command specifies the size of port blocks for NAT subscribers in the NAT pool. For Layer 2 aware NAT, this command specifies the size of the initial port block of a subscriber in the pool. Additional port blocks (extended port blocks) for the Layer 2 aware subscriber must be explicitly enabled under the **l2-aware port-block-extension** hierarchy in the NAT pool. This command does not affect the size of extended port blocks.

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	For deterministic pools, the port range begins with zero. However, for non-deterministic pools, the port range begins with one.
Range	0 to 64512
Notes	The following elements are part of a choice: **port-blocks** or **ports**.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

WARNING:
Modifying this element clears ISA state, such as flow state, for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	NAT pool type
Context	**configure** service vprn *service-name* nat outside pool *named-item* type *keyword*
Tree	type
Options	large-scale, l2-aware, wlan-gw-anchor
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

watermarks

Synopsis	Enable the **watermarks** context
Context	**configure** service vprn *service-name* nat outside pool *named-item* watermarks
Tree	watermarks
Description	This command configures watermarks for NAT resources.
Introduced	25.3.R2
Platforms	SAR Gen 2

high *number*

Synopsis	High watermark percentage

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Context	**configure** service vprn *service-name* nat outside pool *named-item* watermarks high *number*
Tree	high
Description	This command configures the high threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

low *number*

Synopsis	Low watermark percentage
Context	**configure** service vprn *service-name* nat outside pool *named-item* watermarks low *number*
Tree	low
Description	This command configures the low threshold value as a percentage of the total port-block space in a NAT pool.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

network

Synopsis	Enter the **network** context
Context	**configure** service vprn *service-name* network
Tree	network
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context

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Context	**configure** service vprn *service-name* network ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* network ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* network ingress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *reference*

Synopsis	IPv6 filter policy name
Context	**configure** service vprn *service-name* network ingress filter ipv6 *reference*
Tree	ipv6
Reference	**configure** filter ipv6-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vprn *service-name* network ingress qos

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Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

fp-redirect-group *reference*

Synopsis	The forwarding-plane queue group Policy for this VPRN
Context	**configure** service vprn *service-name* network ingress qos fp-redirect-group *reference*
Tree	fp-redirect-group
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

instance *number*

Synopsis	Forwarding plane ingress queue group instance
Context	**configure** service vprn *service-name* network ingress qos instance *number*
Tree	instance
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

network-policy *reference*

Synopsis	Network policy name associated with a VPRN
Context	**configure** service vprn *service-name* network ingress qos network-policy *reference*
Tree	network-policy
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check *boolean*

Synopsis	Enable unicast RPF check of network ingress traffic
Context	**configure** service vprn *service-name* network ingress urpf-check *boolean*

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Tree	urpf-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

network-interface [interface-name] *interface-name*

Synopsis	Enter the **network-interface** list instance
Context	**configure** service vprn *service-name* network-interface *interface-name*
Tree	network-interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Network interface name
Context	**configure** service vprn *service-name* network-interface *interface-name*
Tree	network-interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *very-long-description*

Synopsis	Text description
Context	**configure** service vprn *service-name* network-interface *interface-name* description *very-long-description*
Tree	description
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

dist-cpu-protection *reference*

Synopsis	Distributed CPU protection policy
Context	**configure** service vprn *service-name* network-interface *interface-name* dist-cpu-protection *reference*
Tree	dist-cpu-protection
Reference	**configure** system security dist-cpu-protection policy *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

egress

Synopsis	Enter the **egress** context
Context	**configure** service vprn *service-name* network-interface *interface-name* egress
Tree	egress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* network-interface *interface-name* egress filter
Tree	filter
Introduced	25.3.R2

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Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* network-interface *interface-name* egress filter ip *reference*
Tree	ip
Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-time

Synopsis	Enter the **hold-time** context
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time
Tree	hold-time
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

down

Synopsis	Enter the **down** context
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time ipv4 down
Tree	down
Description	Commands in this context configure the down hold timer, which specifies the delay before activating the associated interface. The delay is invoked whenever the system

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attempts to bring the associated IP interface up, unless an operator configures the **init-only** command.

Introduced	25.3.R2
Platforms	SAR Gen 2

init-only *boolean*

Synopsis	Apply delay only at interface configuration or reboot
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time ipv4 down init-only *boolean*
Tree	init-only
Description	This command applies a delay only when the IP interface is first configured or after a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Down hold time for the IP interface
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time ipv4 down seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

up

Synopsis	Enter the **up** context
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time ipv4 up
Tree	up
Description	Commands in this context configure the up hold timer, which specifies the delay before deactivation of the associated interface. The delay is invoked whenever the system attempts to bring the associated IP interface down.

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Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Up hold time for the IP interface
Context	**configure** service vprn *service-name* network-interface *interface-name* hold-time ipv4 up seconds *number*
Tree	seconds
Range	1 to 1200
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress

Synopsis	Enter the **ingress** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ingress
Tree	ingress
Introduced	25.3.R2
Platforms	SAR Gen 2

filter

Synopsis	Enter the **filter** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ingress filter
Tree	filter
Introduced	25.3.R2
Platforms	SAR Gen 2

ip *reference*

Synopsis	IPv4 filter policy name
Context	**configure** service vprn *service-name* network-interface *interface-name* ingress filter ip *reference*
Tree	ip

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Reference	**configure** filter ip-filter *filter-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-mtu *number*

Synopsis	IP MTU applied to outgoing packets
Context	**configure** service vprn *service-name* network-interface *interface-name* ip-mtu *number*
Tree	ip-mtu
Description	This command configures the IP maximum transmission unit (MTU) for the associated router IP interface.
Range	512 to 9786
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-directed-broadcasts *boolean*

Synopsis	Accept broadcasts that are directed to this interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 allow-directed-broadcasts *boolean*
Tree	allow-directed-broadcasts
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd

Synopsis	Enter the **bfd** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 bfd
Tree	bfd
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of BFD sessions
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 bfd admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-receive *number*

Synopsis	Minimum echo interval over this interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 bfd echo-receive *number*
Tree	echo-receive
Range	100 to 100000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Number of consecutive BFD messages missed from the peer
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 bfd multiplier *number*
Tree	multiplier

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Description	This command configures the number of missed messages before the BFD session state is changed to down and the upper-level protocol is notified of the fault. A multiplier of less than 3 should not be used in production environments.
Range	1 to 20
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *number*

Synopsis	BFD receive interval over this interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 bfd receive *number*
Tree	receive
Description	This command specifies the receive interval for the BFD session.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

transmit-interval *number*

Synopsis	BFD transmit interval over this interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 bfd transmit-interval *number*
Tree	transmit-interval
Description	This command configures the transmit intervals.
Range	10 to 100000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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icmp

Synopsis	Enter the **icmp** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

mask-reply *boolean*

Synopsis	Allow responses to ICMP mask requests on the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp mask-reply *boolean*
Tree	mask-reply
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

param-problem

Synopsis	Enter the **param-problem** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp param-problem
Tree	param-problem
Description	Commands in this context specify the settings for ICMP Parameter Problem messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sent Parameter Problem messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp param-problem admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of Parameter Problem messages to send
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp param-problem number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit number of Parameter Problem messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp param-problem seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

redirects

Synopsis	Enter the **redirects** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp redirects
Tree	redirects
Description	Commands in this context configure the settings for ICMP redirect messages generated by the interface.

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The system sends ICMP redirect messages to alert the sending node that a more optimal route is available on another router on the same subnetwork.

Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending ICMP redirect messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp redirects admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of ICMP redirect messages to send
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp redirects number *number*
Tree	number
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time used to limit the number of ICMP redirect messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp redirects seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10

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Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-expired

Synopsis	Enter the **ttl-expired** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp ttl-expired
Tree	ttl-expired
Description	Commands in this context configure the settings for ICMP TTL expired messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending TTL expired messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp ttl-expired admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum number of TTL expired messages to send
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp ttl-expired number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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seconds *number*

Synopsis	Time used to limit the number of TTL expired messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp ttl-expired seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

unreachables

Synopsis	Enter the **unreachables** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp unreachables
Tree	unreachables
Description	Commands in this context specify the settings for ICMP host and network destination unreachable messages generated by the interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of sending unreachable messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp unreachables admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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number *number*

Synopsis	Maximum number of unreachable messages to send
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp unreachables number *number*
Tree	number
Range	10 to 2000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

seconds *number*

Synopsis	Time to limit the number of ICMP unreachable messages
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 icmp unreachables seconds *number*
Tree	seconds
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor-discovery

Synopsis	Enter the **neighbor-discovery** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 neighbor-discovery
Tree	neighbor-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-timer *number*

Synopsis	ARP retry interval

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Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 neighbor-discovery retry-timer *number*
Tree	retry-timer
Range	1 to 300
Units	deciseconds
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

static-neighbor [ipv4-address] *ipv4-address*

Synopsis	Enter the **static-neighbor** list instance
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-address*

Synopsis	IPv4 address that corresponds to the physical address
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address*
Tree	static-neighbor
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac-address *mac-address*

Synopsis	MAC address for the static neighbor
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 neighbor-discovery static-neighbor *ipv4-address* mac-address *mac-address*
Tree	mac-address

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout for an ARP entry learned on the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 neighbor-discovery timeout *number*
Tree	timeout
Description	This command configures the minimum time an ARP entry learned on the IP interface is stored in the ARP table. ARP entries are automatically refreshed when an ARP request or gratuitous ARP is seen by an IP host. Otherwise, the ARP entry is aged from the ARP table.
Range	0 to 65535
Units	seconds
Default	14400
Introduced	25.3.R2
Platforms	SAR Gen 2

primary

Synopsis	Enable the **primary** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 primary
Tree	primary
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Primary IPv4 address assigned to the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 primary address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 primary broadcast *keyword*
Tree	broadcast
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 primary prefix-length *number*
Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary [address] *ipv4-unicast-address*

Synopsis	Enter the **secondary** list instance
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 secondary *ipv4-unicast-address*
Tree	secondary
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**address**] *ipv4-unicast-address*

Synopsis	Secondary IPv4 address assigned to the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 secondary *ipv4-unicast-address*
Tree	secondary
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast *keyword*

Synopsis	Broadcast address format
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 secondary *ipv4-unicast-address* broadcast *keyword*
Tree	broadcast
Options	all-ones, host-ones
Default	host-ones
Introduced	25.3.R2
Platforms	SAR Gen 2

igp-inhibit *boolean*

Synopsis	Disable the running IGP from recognizing secondary IP
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 secondary *ipv4-unicast-address* igp-inhibit *boolean*
Tree	igp-inhibit
Description	When configured to **true**, the running IGP does not recognize the secondary IP address as a local interface.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix-length *number*

Synopsis	IPv4 address prefix length
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 secondary *ipv4-unicast-address* prefix-length *number*
Tree	prefix-length
Range	0 to 32
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-mss *number*

Synopsis	TCP maximum segment size for the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 tcp-mss *number*
Tree	tcp-mss
Range	384 to 9746
Introduced	25.3.R2
Platforms	SAR Gen 2

urpf-check

Synopsis	Enable the **urpf-check** context
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 urpf-check
Tree	urpf-check
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-default *boolean*

Synopsis	Ignore default route when performing a uRPF check
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 urpf-check ignore-default *boolean*
Tree	ignore-default
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Unicast RPF check mode
Context	**configure** service vprn *service-name* network-interface *interface-name* ipv4 urpf-check mode *keyword*
Tree	mode
Options	strict – Check source address match in RT and interface loose – Check source address match in RT only strict-no-ecmp – Check source address match in ECMP route
Default	strict
Introduced	25.3.R2
Platforms	SAR Gen 2

lag

Synopsis	Enter the **lag** context
Context	**configure** service vprn *service-name* network-interface *interface-name* lag
Tree	lag
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing

Synopsis	Enter the **load-balancing** context
Context	**configure** service vprn *service-name* network-interface *interface-name* load-balancing
Tree	load-balancing
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-load-balancing *keyword*

Synopsis	IP load-balancing algorithm

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Context	**configure** service vprn *service-name* network-interface *interface-name* load-balancing ip-load-balancing *keyword*
Tree	ip-load-balancing
Description	This command specifies whether to include the source address, destination address, or both in LAG or ECMP hash on IP interfaces. Additionally, when the **l4-load-balancing** command is enabled, this command also includes the source or destination port in the hash inputs.
Options	both, destination, source, inner-ip
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

lsr-load-balancing *keyword*

Synopsis	LSR load-balancing algorithm
Context	**configure** service vprn *service-name* network-interface *interface-name* load-balancing lsr-load-balancing *keyword*
Tree	lsr-load-balancing
Description	This command specifies whether the IP header is used in the LAG and ECMP LSR hashing algorithm. This is the per-interface setting.
Options	lbl-only, lbl-ip, ip-only, eth-encap-ip, lbl-ip-l4-teid
Introduced	25.3.R2
Platforms	SAR Gen 2

loopback

Synopsis	Use interface as a loopback interface
Context	**configure** service vprn *service-name* network-interface *interface-name* loopback
Tree	loopback
Notes	The following elements are part of a choice: **loopback** or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address*

Synopsis	MAC address for the interface

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Context	**configure** service vprn *service-name* network-interface *interface-name* mac *mac-unicast-address*
Tree	mac
Description	This command assigns a specific MAC address to an IP interface.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

port *port-and-encap*

Synopsis	Port to bind the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* port *port-and-encap*
Tree	port
String length	1 to 45
Notes	The following elements are part of a choice: **loopback** or **port**.
Introduced	25.3.R2
Platforms	SAR Gen 2

qos

Synopsis	Enter the **qos** context
Context	**configure** service vprn *service-name* network-interface *interface-name* qos
Tree	qos
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-instance *number*

Synopsis	Port egress queue group instance for this interface
Context	**configure** service vprn *service-name* network-interface *interface-name* qos egress-instance *number*
Tree	egress-instance
Description	This command specifies which instance to associate with this specific network IP interface since multiple instances of the same egress queue-group can be applied to the same port.

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Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

egress-port-redirect-group *reference*

Synopsis	QoS queue group name
Context	**configure** service vprn *service-name* network-interface *interface-name* qos egress-port-redirect-group *reference*
Tree	egress-port-redirect-group
Description	This command configures the egress queue group used for all egress forwarding-class redirections specified within the network QoS policy ID. The specified queue group name must exist as an egress queue group applied to the egress context of the port associated with the IP interface.
Reference	**configure** qos queue-group-templates egress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress-fp-redirect-group *reference*

Synopsis	Forwarding plane queue group policy for the interface
Context	**configure** service vprn *service-name* network-interface *interface-name* qos ingress-fp-redirect-group *reference*
Tree	ingress-fp-redirect-group
Description	This command configures the ingress queue-group used for all ingress forwarding-class redirections specified within the network QoS policy ID. The specified queue group name must exist as an ingress queue group applied to the ingress context of the forwarding plane associated with the IP interface.
Reference	**configure** qos queue-group-templates ingress queue-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

ingress-instance *number*

Synopsis	Forwarding plane ingress queue group for this interface
Context	**configure** service vprn *service-name* network-interface *interface-name* qos ingress-instance *number*

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Tree	ingress-instance
Description	This command configures which instance to associate with this specific network IP interface. An operator can apply multiple instances of the same ingress queue group to the same forwarding plane.
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

network-policy *reference*

Synopsis	Network policy name associated with a network interface
Context	**configure** service vprn *service-name* network-interface *interface-name* qos network-policy *reference*
Tree	network-policy
Description	This command associates an existing network policy name with the IP interface.
Reference	**configure** qos network *network-policy-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

tos-marking-state *keyword*

Synopsis	TOS marking state
Context	**configure** service vprn *service-name* network-interface *interface-name* tos-marking-state *keyword*
Tree	tos-marking-state
Options	trusted, untrusted
Default	trusted
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp

Synopsis	Enable the **ntp** context
Context	**configure** service vprn *service-name* ntp
Tree	ntp
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of NTP execution
Context	**configure** service vprn *service-name* ntp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticate *boolean*

Synopsis	Authentication of NTP PDUs when acting as a server
Context	**configure** service vprn *service-name* ntp authenticate *boolean*
Tree	authenticate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-check *boolean*

Synopsis	Authenticate NTP PDUs and reject mismatches
Context	**configure** service vprn *service-name* ntp authentication-check *boolean*
Tree	authentication-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key [key-id] *number*

Synopsis	Enter the **authentication-key** list instance
Context	**configure** service vprn *service-name* ntp authentication-key *number*
Tree	authentication-key

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Authentication key ID used for NTP packets
Context	**configure** service vprn *service-name* ntp authentication-key *number*
Tree	authentication-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

key *encrypted-leaf*

Synopsis	Key to authenticate NTP packets
Context	**configure** service vprn *service-name* ntp authentication-key *number* key *encrypted-leaf*
Tree	key
Description	This command specifies the key to authenticate NTP packets in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 126
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Authentication method to authenticate NTP packet
Context	**configure** service vprn *service-name* ntp authentication-key *number* type *keyword*
Tree	type
Options	des, message-digest
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Authentication keychain for unsolicited traffic
Context	**configure** service vprn *service-name* ntp authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the authentication keychain used to handle unsolicited NTP requests. If a request is received with a key ID that matches both a configured key and the keychain, the MAC is checked first using the key information. If the authentication fails, the MAC is checked using the information from the keychain.
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast [interface-name] *reference*

Synopsis	Enter the **broadcast** list instance
Context	**configure** service vprn *service-name* ntp broadcast *reference*
Tree	broadcast
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	Local interface used to transmit NTP broadcast packets
Context	**configure** service vprn *service-name* ntp broadcast *reference*
Tree	broadcast
Reference	**configure** service vprn *service-name* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-keychain *reference*

Synopsis	Keychain used to authenticate broadcast messages
Context	**configure** service vprn *service-name* ntp broadcast *reference* authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the keychain used to authenticate messages sent by this node. The keychain infrastructure is queried using this keychain name to get the youngest key used for generating the authentication value for the message. When an NTP packet is received by this node, the keychain infrastructure is queried using the keychain name and the key ID extracted from the received message to get the key used to perform the authentication check. If authentication does not pass, the packet is rejected. Keychain entries also have a direction. The key ID and authentication keychain are mutually exclusive. When neither one is set, for example, the key ID has a value of '0' and the value of this command is empty, no authentication is performed.
Reference	**configure** system security keychains keychain *named-item*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-id *reference*

Synopsis	Authentication key and type used by the node
Context	**configure** service vprn *service-name* ntp broadcast *reference* key-id *reference*
Tree	key-id
Reference	**configure** service vprn *service-name* ntp authentication-key *number*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl *number*

Synopsis	TTL of messages transmitted by the broadcast address
Context	**configure** service vprn *service-name* ntp broadcast *reference* ttl *number*
Tree	ttl
Range	1 to 255

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Default	127
Introduced	25.3.R2
Platforms	SAR Gen 2

version *number*

Synopsis	NTP version number generated by the node
Context	**configure** service vprn *service-name* ntp broadcast *reference* version *number*
Tree	version
Range	2 to 4
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf [ospf-instance] *number*

Synopsis	Enter the **ospf** list instance
Context	**configure** service vprn *service-name* ospf *number*
Tree	ospf
Description	Commands in this context configure an OSPF protocol instance.
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPF instance
Context	**configure** service vprn *service-name* ospf *number*
Tree	ospf
Range	0
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF instance
Context	**configure** service vprn *service-name* ospf *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *keyword*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* ospf *number* advertise-router-capability *keyword*
Tree	advertise-router-capability
Options	false, link, area, as
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

area [area-id] *ipv4-address*

Synopsis	Enter the **area** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address*
Tree	area
Introduced	25.3.R2
Platforms	SAR Gen 2

[**area-id**] *ipv4-address*

Synopsis	Area-ID attribute
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address*
Tree	area

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String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-ne-profile *reference*

Synopsis	Network element profile to be advertised
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* advertise-ne-profile *reference*
Tree	advertise-ne-profile
Reference	**configure** system network-element-discovery profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Synopsis	Enter the **area-range** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* area-range *ipv4-unicast-prefix*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**ip-prefix-mask**] *ipv4-unicast-prefix*

Synopsis	IPv4 unicast address prefix and mask
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* area-range *ipv4-unicast-prefix*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* area-range *ipv4-unicast-prefix* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole-aggregate *boolean*

Synopsis	Install a low priority blackhole route to avoid loops
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* blackhole-aggregate *boolean*
Tree	blackhole-aggregate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Type 3 Summary-LSA/OSPFv3 inter-area-prefix-LSA route
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* export-policy *reference*
Tree	export-policy

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Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Route imported as Summary Type 3/Inter-Area-Prefix-LSA
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name*
Tree	interface
String length	1 to 32

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-subnet *boolean*

Synopsis	Advertise point-to-point interfaces as subnet routes
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* advertise-subnet *boolean*
Tree	advertise-subnet
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-key *encrypted-leaf*

Synopsis	Authentication key
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type used on OSPF interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

remain-down-on-failure *boolean*

Synopsis	Force adjacency down on failure until session returns
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness remain-down-on-failure *boolean*
Tree	remain-down-on-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict *boolean*

Synopsis	Enable BFD strict mode
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness strict *boolean*
Tree	strict
Description	When configured to **true**, the system uses BFD strict-mode. BFD strict-mode mandates that an active BFD session must exist between the OSPF neighbors before establishing a full adjacency. When configured to **true**, the router uses Link-Local Signaling (LLS) with the B-flag set to instruct the OSPF neighbors that BFD must be enabled on the link. BFD strict-mode requires both sides to have the B-flag set. During OSPFv3 BFD strict-mode operations, the router advertises the local interface IPv4 address TLV using LLS, but the SR OS router continues to use IPv6-based BFD sessions for both the IPv4 and IPv6 address families.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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strict-mode-holddown *number*

Synopsis	Adjacency up time delay after BFD session establishment
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* bfd-liveness strict-mode-holddown *number*
Tree	strict-mode-holddown
Description	This command configures a delay timer before bringing up the OSPF adjacency after the BFD session establishment. Holddown helps mitigate potential routing churn when BFD sessions are unstable. The holddown timer is reset when a BFD session operationally toggles.
Range	1 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-advertise-prefix *reference*

Synopsis	Policy to conditionally advertise interface prefixes
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* conditional-advertise-prefix *reference*
Tree	conditional-advertise-prefix
Description	This command specifies the policy that allows IS-IS, OSPF, and OSPFv3 to selectively advertise system or loopback interface prefixes (including associated SIDs and SRv6 locators) only when conditions defined in the route policy are met. The route policy evaluates the presence or absence of specific routes in the routing table, typically using constructs like route-exists. If the policy evaluates to accept, the interface prefix is advertised; if not, the prefix is suppressed.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.10.R1
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* dead-interval *number*
Tree	dead-interval
Range	2 to 65535

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Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Interface type
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* interface-type *keyword*
Tree	interface-type
Description	This command specifies the interface type. **broadcast** - Broadcast network To significantly improve adjacency forming and network convergence, configure a network as point-to-point if only two routers are connected, even if the network is a broadcast media such as Ethernet. **non-broadcast** - Non-broadcast network **point-to-point** - Point-to-point link Set the interface type of an Ethernet link to **point-to-point** to avoid having to carry the broadcast adjacency maintenance overhead if the Ethernet link provided is used as a point-to-point. **p2mp-nbma** - Point-to-multipoint on a link without broadcast or multicast support

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No designated router or backup designated router is elected on this type of interface and all OSPF neighbors connect through individual point-to-point links. Only VPRN and IES services interfaces support this interface type.

secondary - Multiple secondary adjacencies allowed

A **secondary** interface allows multiple secondary adjacencies, in addition to the primary adjacency, to be established over a single IP interface. This interface type can also be applied to the system interface and to loopback interfaces to allow them to participate in multiple areas, although no adjacencies are formed over these types of interfaces.

Options	broadcast, non-broadcast, point-to-point, secondary, p2mp-nbma
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load-balancing weight
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enter the **loopfree-alternate** context
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Enable fast reroute at OSPF primary interface level
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate exclude *boolean*
Tree	exclude
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

policy-map

Synopsis	Enable the **policy-map** context
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map
Tree	policy-map
Introduced	25.3.R2
Platforms	SAR Gen 2

route-nh-template *reference*

Synopsis	Route next hop policy template name
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map route-nh-template *reference*
Tree	route-nh-template
Reference	**configure** routing-options route-next-hop-policy template *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-filter-out *keyword*

Synopsis	LSA flooding reduction
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* lsa-filter-out *keyword*
Tree	lsa-filter-out
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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message-digest-key [key-id] *number*

Synopsis	Enter the **message-digest-key** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* message-digest-key *number*
Tree	message-digest-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Message digest index
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* message-digest-key *number*
Tree	message-digest-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

md5 *encrypted-leaf*

Synopsis	MD5 hash key
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* message-digest-key *number* md5 *encrypted-leaf*
Tree	md5
Description	This command specifies the MD5 hash key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric *number*

Synopsis	Route cost metric for the interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* metric *number*
Tree	metric
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu *number*

Synopsis	MTU for the OSPF to use on the interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* mtu *number*
Tree	mtu
Range	512 to 9786
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [address] *ipv4-unicast-address*

Synopsis	Add a list entry for **neighbor**
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* neighbor *ipv4-unicast-address*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis	IPv4 address of the OSPFv2 neighbor
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* neighbor *ipv4-unicast-address*
Tree	neighbor
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Advertise passive interfaces as OSPF interfaces
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* passive *boolean*
Tree	passive
Introduced	25.3.R2
Platforms	SAR Gen 2

poll-interval *number*

Synopsis	Interval for Hellos to non-adjacent OSPF NBMA neighbor
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* poll-interval *number*
Tree	poll-interval
Max. range	0 to 4294967295
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Interface priority in the DR election on the subnet
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* priority *number*
Tree	priority
Range	0 to 255
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority *keyword*

Synopsis	RIB priority for OSPF
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* rib-priority *keyword*
Tree	rib-priority
Options	high
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* interface *interface-name* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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loopfree-alternate-exclude *boolean*

Synopsis	Exclude interfaces in OSPF areas in SPF LFA computation
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nssa

Synopsis	Enable the **nssa** context
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa
Tree	nssa
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Synopsis	Enter the **area-range** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa area-range *ipv4-unicast-prefix*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-mask**] *ipv4-unicast-prefix*

Synopsis	IPv4 unicast address prefix and mask
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa area-range *ipv4-unicast-prefix*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa area-range *ipv4-unicast-prefix* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

originate-default-route

Synopsis	Enable the **originate-default-route** context
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa originate-default-route
Tree	originate-default-route
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-check *boolean*

Synopsis	Perform adjacency checks before originating a default route
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa originate-default-route adjacency-check *boolean*
Tree	adjacency-check
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

type-nssa *boolean*

Synopsis	Generate a default route using NSSA-LSA type
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa originate-default-route type-nssa *boolean*
Tree	type-nssa
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-external *boolean*

Synopsis	Redistribute external routes into the NSSA
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa redistribute-external *boolean*
Tree	redistribute-external
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the NSSA on an ABR
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* nssa summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

sham-link [interface] *interface-name* ip-address *ipv4-unicast-address*

Synopsis	Enter the **sham-link** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address*
Tree	sham-link
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface**] *interface-name*

Synopsis	Local interface name used for the sham-link

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Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address*
Tree	sham-link
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-unicast-address*

Synopsis	IP address of the sham-link neighbor
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address*
Tree	sham-link
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key to send and receive OSPF packets
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* authentication-key *encrypted-leaf*

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Tree	authentication-key
Description	This command specifies the authentication key to send and receive OSPF packets in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* authentication-keychain *reference*
Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type to be used
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* dead-interval *number*
Tree	dead-interval
Range	2 to 65535

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Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

message-digest-key [key-id] *number*

Synopsis	Enter the **message-digest-key** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* message-digest-key *number*
Tree	message-digest-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Message digest index
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* message-digest-key *number*
Tree	message-digest-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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md5 *encrypted-leaf*

Synopsis	MD5 key or hash key
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* message-digest-key *number* md5 *encrypted-leaf*
Tree	md5
Description	This command specifies the MD5 key or hash key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Explicit route cost metric that is applied to the sham link
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* metric *number*
Tree	metric
Range	1 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5

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Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* sham-link *interface-name* ip-address *ipv4-unicast-address* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

stub

Synopsis	Enable the **stub** context
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* stub
Tree	stub
Introduced	25.3.R2
Platforms	SAR Gen 2

default-metric *number*

Synopsis	Metric used by ABR for default route into the stub area
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* stub default-metric *number*
Tree	default-metric
Range	1 to 16777214
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the stub area on an ABR
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* stub summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-link [router-id] *ipv4-address* transit-area *reference*

Synopsis	Enter the **virtual-link** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-id**] *ipv4-address*

Synopsis	Router identity of the virtual link neighbor
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-area *reference*

Synopsis	Transit area that links backbone area to area without physical connection with the backbone
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*

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Tree	virtual-link
Reference	**configure** service vprn *service-name* ospf *number* area *ipv4-address*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 94
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	TCP authentication keychain for the session
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication-keychain *reference*

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Tree	authentication-keychain
Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type used on OSPF interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest
Introduced	25.3.R2
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* hello-interval *number*
Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2

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Platforms	SAR Gen 2

message-digest-key [key-id] *number*

Synopsis	Enter the **message-digest-key** list instance
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* message-digest-key *number*
Tree	message-digest-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Message digest index
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* message-digest-key *number*
Tree	message-digest-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

md5 *encrypted-leaf*

Synopsis	MD5 hash key
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* message-digest-key *number* md5 *encrypted-leaf*
Tree	md5
Description	This command specifies the MD5 hash key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** service vprn *service-name* ospf *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

compatible-rfc1583 *boolean*

Synopsis	OSPF summary and external route calculations
Context	**configure** service vprn *service-name* ospf *number* compatible-rfc1583 *boolean*
Tree	compatible-rfc1583
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** service vprn *service-name* ospf *number* export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** service vprn *service-name* ospf *number* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** service vprn *service-name* ospf *number* export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies that determine exported routes
Context	**configure** service vprn *service-name* ospf *number* export-policy *reference*
Tree	export-policy
Description	This command configures export routing policies for the routes exported from the routing table to IS-IS. If the export policy is undefined, the system does not export non IS-IS routes from the routing table manager to IS-IS.

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If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.

If the **aggregate** command is also configured in the **configure router** context, the aggregation is applied before the export policy is applied.

Routing policies are created in the **configure router policy-options** context.

Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

external-db-overflow

Synopsis	Enable the **external-db-overflow** context
Context	**configure** service vprn *service-name* ospf *number* external-db-overflow
Tree	external-db-overflow
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Time during which the router operates in overload
Context	**configure** service vprn *service-name* ospf *number* external-db-overflow interval *number*
Tree	interval
Range	0 to 2147483647
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Number of external LSA at which overload is triggered
Context	**configure** service vprn *service-name* ospf *number* external-db-overflow limit *number*
Tree	limit

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Range	0 to 2147483647
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

external-preference *number*

Synopsis	Preference for OSPF external routes
Context	**configure** service vprn *service-name* ospf *number* external-preference *number*
Tree	external-preference
Range	1 to 255
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** service vprn *service-name* ospf *number* graceful-restart
Tree	graceful-restart
Description	Commands in this context enable OSPF graceful restart (GR) to minimize service interruption. When the control plane of a GR-capable router fails or restarts, the neighboring routers (GR helpers) temporarily preserve OSPF forwarding information. Traffic continues to be forwarded to the restarting router using the last-known forwarding tables. If the control plane of the restarting router becomes operationally and administratively up within the grace period, the restarting router resumes normal OSPF operation. If the grace period expires, the restarting router is presumed inactive and the OSPF topology is recalculated to route traffic around the failure.
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-mode *boolean*

Synopsis	Enable graceful restart helper for OSPF
Context	**configure** service vprn *service-name* ospf *number* graceful-restart helper-mode *boolean*
Tree	helper-mode

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Description	When configured to **true**, the router operates in OSPF graceful restart helper mode and assists restarting neighbors by maintaining adjacencies and forwarding state during their graceful restart interval. When configured to **false**, the router does not provide helper support and does not preserve adjacency or forwarding state for neighbors performing a graceful restart.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-resync-timeout *number*

Synopsis	Maximum resynchronization period
Context	**configure** service vprn *service-name* ospf *number* graceful-restart helper-resync-timeout *number*
Tree	helper-resync-timeout
Description	This command configures the maximum resynchronization period. If the resynchronization takes longer than the configured value, the graceful restart process stops, and the OSPF neighbor session falls back to the ExStart state for normal adjacency establishment.
Range	120 to 900
Units	seconds
Default	120
Introduced	26.3.R1
Platforms	SAR Gen 2

protocol

Synopsis	Enter the **protocol** context
Context	**configure** service vprn *service-name* ospf *number* graceful-restart protocol
Tree	protocol
Description	Commands in this context configure which RFC is used for OSPF graceful restart signaling. If both protocols are enabled, the OSPF interface automatically uses the method indicated by the first received graceful restart signaling packet on that interface.
Introduced	26.3.R1
Platforms	SAR Gen 2

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lls-restart-signaling *boolean*

Synopsis	Enable LLS restart signaling protocol
Context	**configure** service vprn *service-name* ospf *number* graceful-restart protocol lls-restart-signaling *boolean*
Tree	lls-restart-signaling
Description	When configured to **true**, the system enables support for RFC 4811 and RFC 4812. When configured to **false**, the system disables support for RFC 4811 and RFC 4812.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

standard *boolean*

Synopsis	Enable standard protocol for restart signaling
Context	**configure** service vprn *service-name* ospf *number* graceful-restart protocol standard *boolean*
Tree	standard
Description	When configured to **true**, the system enables support for RFC 3623. When configured to **false**, the system disables support for RFC 3623.
Default	true
Introduced	26.3.R1
Platforms	SAR Gen 2

strict-lsa-checking *boolean*

Synopsis	Perform strict LSA checking during graceful restart
Context	**configure** service vprn *service-name* ospf *number* graceful-restart strict-lsa-checking *boolean*
Tree	strict-lsa-checking
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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ignore-dn-bit *boolean*

Synopsis	Ignore the DN bit for OSPF LSA packets for the instance
Context	**configure** service vprn *service-name* ospf *number* ignore-dn-bit *boolean*
Tree	ignore-dn-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy names for routes from IGP to route table
Context	**configure** service vprn *service-name* ospf *number* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** service vprn *service-name* ospf *number* loopfree-alternate
Tree	loopfree-alternate
Description	Commands in this context enable Loop-Free Alternate (LFA) computation by SPF under the IS-IS routing protocol level or under the OSPF routing protocol instance. When this command is enabled, it instructs the IGP SPF to attempt to pre-compute both a primary next hop and an LFA next hop for every learned prefix. IS-IS computes the primary SPF first and then computes the LFA SPF. The LFA backup next hop is only available after the LFA SPF is completed. When found, the LFA next hop is populated into the routing table along with the primary next hop for the prefix.
Introduced	25.3.R2
Platforms	SAR Gen 2

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exclude

Synopsis	Enter the **exclude** context
Context	**configure** service vprn *service-name* ospf *number* loopfree-alternate exclude
Tree	exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-policy *reference*

Synopsis	Policy to exclude prefixes from LFA SPF calculation
Context	**configure** service vprn *service-name* ospf *number* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Description	This command specifies the name of the policy for the prefixes to exclude from the LFA SPF calculation. An excluded prefix is not included in LFA calculation regardless of its priority. The prefix tag is, however, used in the main SPF.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import *boolean*

Synopsis	Submit routes into the multicast Route Table Manager
Context	**configure** service vprn *service-name* ospf *number* multicast-import *boolean*
Tree	multicast-import
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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overload *boolean*

Synopsis	Change local router state to appear overloaded
Context	**configure** service vprn *service-name* ospf *number* overload *boolean*
Tree	overload
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-1 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** service vprn *service-name* ospf *number* overload-include-ext-1 *boolean*
Tree	overload-include-ext-1
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-2 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** service vprn *service-name* ospf *number* overload-include-ext-2 *boolean*
Tree	overload-include-ext-2
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-stub *boolean*

Synopsis	Advertise all stub interfaces with max metric value
Context	**configure** service vprn *service-name* ospf *number* overload-include-stub *boolean*
Tree	overload-include-stub
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

overload-on-boot

Synopsis	Enable the **overload-on-boot** context
Context	**configure** service vprn *service-name* ospf *number* overload-on-boot
Tree	overload-on-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time during which the router operates in overload state before reestablishing normal operations
Context	**configure** service vprn *service-name* ospf *number* overload-on-boot timeout *number*
Tree	timeout
Range	60 to 1800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Preference for OSPF internal routes
Context	**configure** service vprn *service-name* ospf *number* preference *number*
Tree	preference
Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-bandwidth *number*

Synopsis	Bandwidth to reference default costing of interfaces
Context	**configure** service vprn *service-name* ospf *number* reference-bandwidth *number*

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Tree	reference-bandwidth
Range	1 to 18446744073709551615
Units	kilobps
Default	100000000
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority

Synopsis	Enter the **rib-priority** context
Context	**configure** service vprn *service-name* ospf *number* rib-priority
Tree	rib-priority
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** service vprn *service-name* ospf *number* rib-priority high
Tree	high
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list *reference*

Synopsis	Higher priority list used during OSPF route calculation
Context	**configure** service vprn *service-name* ospf *number* rib-priority high prefix-list *reference*
Tree	prefix-list
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-id *router-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Unique router ID for the OSPF instance
Context	**configure** service vprn *service-name* ospf *number* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

rtr-adv-lsa-limit

Synopsis	Enable the **rtr-adv-lsa-limit** context
Context	**configure** service vprn *service-name* ospf *number* rtr-adv-lsa-limit
Tree	rtr-adv-lsa-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Log the event without triggering overload
Context	**configure** service vprn *service-name* ospf *number* rtr-adv-lsa-limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-count *number*

Synopsis	Max number of LSAs one router can advertise
Context	**configure** service vprn *service-name* ospf *number* rtr-adv-lsa-limit max-lsa-count *number*

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Tree	max-lsa-count
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-timeout *(number | keyword)*

Synopsis	Maximum time in overload after LSA limit is reached
Context	**configure** service vprn *service-name* ospf *number* rtr-adv-lsa-limit overload-timeout *(number | keyword)*
Tree	overload-timeout
Range	1 to 1800
Units	seconds
Options	forever
Default	forever
Introduced	25.3.R2
Platforms	SAR Gen 2

warning-threshold *number*

Synopsis	Percentage of the max LSA count that causes a warning
Context	**configure** service vprn *service-name* ospf *number* rtr-adv-lsa-limit warning-threshold *number*
Tree	warning-threshold
Range	0 to 100
Units	percent
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

super-backbone *boolean*

Synopsis	Enable super backbone functionality
Context	**configure** service vprn *service-name* ospf *number* super-backbone *boolean*

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Tree	super-backbone
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-dn-bit *boolean*

Synopsis	Suppress the DN bit setting for OSPF LSA packets
Context	**configure** service vprn *service-name* ospf *number* suppress-dn-bit *boolean*
Tree	suppress-dn-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enter the **timers** context
Context	**configure** service vprn *service-name* ospf *number* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

incremental-spf-wait *number*

Synopsis	Delay time before an incremental SPF calculation starts
Context	**configure** service vprn *service-name* ospf *number* timers incremental-spf-wait *number*
Tree	incremental-spf-wait
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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lsa-accumulate *number*

Synopsis	Delay to gather LSAs before advertising to neighbors
Context	**configure** service vprn *service-name* ospf *number* timers lsa-accumulate *number*
Tree	lsa-accumulate
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-arrival *number*

Synopsis	Min delay between receipt of same LSAs from neighbors
Context	**configure** service vprn *service-name* ospf *number* timers lsa-arrival *number*
Tree	lsa-arrival
Range	0 to 600000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-generate

Synopsis	Enter the **lsa-generate** context
Context	**configure** service vprn *service-name* ospf *number* timers lsa-generate
Tree	lsa-generate
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-initial-wait *number*

Synopsis	First wait period between OSPF LSA generation
Context	**configure** service vprn *service-name* ospf *number* timers lsa-generate lsa-initial-wait *number*

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Tree	lsa-initial-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-second-wait *number*

Synopsis	Hold time between the first and second LSA generation
Context	**configure** service vprn *service-name* ospf *number* timers lsa-generate lsa-second-wait *number*
Tree	lsa-second-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-wait *number*

Synopsis	Max time between two LSAs being generated
Context	**configure** service vprn *service-name* ospf *number* timers lsa-generate max-lsa-wait *number*
Tree	max-lsa-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-delay *number*

Synopsis	Hold down timer for external routes into OSPF
Context	**configure** service vprn *service-name* ospf *number* timers redistribute-delay *number*

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Tree	redistribute-delay
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** service vprn *service-name* ospf *number* timers spf-wait
Tree	spf-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-initial-wait *number*

Synopsis	Initial SPF calculation delay after a topology change
Context	**configure** service vprn *service-name* ospf *number* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-max-wait *number*

Synopsis	Max interval between two consecutive SPF calculations
Context	**configure** service vprn *service-name* ospf *number* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Units	milliseconds
Default	10000
Introduced	25.3.R2

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Platforms	SAR Gen 2

spf-second-wait *number*

Synopsis	Hold time between the first and second SPF calculation
Context	**configure** service vprn *service-name* ospf *number* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-import *boolean*

Synopsis	Submit routes into the unicast Route Table Manager
Context	**configure** service vprn *service-name* ospf *number* unicast-import *boolean*
Tree	unicast-import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-domain

Synopsis	Enable the **vpn-domain** context
Context	**configure** service vprn *service-name* ospf *number* vpn-domain
Tree	vpn-domain
Introduced	25.3.R2
Platforms	SAR Gen 2

id *system-id*

Synopsis	OSPF VPN domain ID
Context	**configure** service vprn *service-name* ospf *number* vpn-domain id *system-id*

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Tree	id
Description	This command specifies the OSPF VPN domain. This is exchanged using BGP in the Extended Community attribute associated with a prefix.
String length	14
Default	0000.0000.0000
String format	'system-id' must be 12 hex digits in XXXX.XXXX.XXXX form (e.g. 0143.0438.aef0)
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	VPN domain type
Context	**configure** service vprn *service-name* ospf *number* vpn-domain type *keyword*
Tree	type
Options	0005, 0105, 0205, 8005
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

vpn-tag *number*

Synopsis	OSPF VPN tag
Context	**configure** service vprn *service-name* ospf *number* vpn-tag *number*
Tree	vpn-tag
Max. range	0 to 4294967295
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf3 [ospf-instance] *number*

Synopsis	Enter the **ospf3** list instance
Context	**configure** service vprn *service-name* ospf3 *number*
Tree	ospf3

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Description	Commands in this context create an OSPFv3 routing instance and configure associated command options.
Max. instances	32
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ospf-instance**] *number*

Synopsis	OSPF instance
Context	**configure** service vprn *service-name* ospf3 *number*
Tree	ospf3
Range	0 to 31 | 64 to 95
MD-CLI default	0
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF instance
Context	**configure** service vprn *service-name* ospf3 *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *keyword*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* ospf3 *number* advertise-router-capability *keyword*
Tree	advertise-router-capability
Options	false, link, area, as

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

area [area-id] *ipv4-address*

Synopsis	Enter the **area** list instance
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address*
Tree	area
Introduced	25.3.R2
Platforms	SAR Gen 2

[**area-id**] *ipv4-address*

Synopsis	Area-ID attribute
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address*
Tree	area
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **area-range** list instance

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Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-mask**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Address ranges to create on an ABR for route summarization or suppression
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* area-range *(ipv4-prefix | ipv6-prefix)* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

blackhole-aggregate *boolean*

Synopsis	Install a low priority blackhole route to avoid loops
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* blackhole-aggregate *boolean*
Tree	blackhole-aggregate
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-policy *reference*

Synopsis	Type 3 Summary-LSA/OSPFv3 inter-area-prefix-LSA route
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Route imported as Summary Type 3/Inter-Area-Prefix-LSA
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name*
Tree	interface
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-router-capability *boolean*

Synopsis	Allow router advertisement capabilities
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* advertise-router-capability *boolean*
Tree	advertise-router-capability
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication

Synopsis	Enable the **authentication** context

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Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* authentication
Tree	authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound *reference*

Synopsis	sa-name
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* authentication inbound *reference*
Tree	inbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound *reference*

Synopsis	sa-name
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* authentication outbound *reference*
Tree	outbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness

Synopsis	Enable the **bfd-liveness** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

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remain-down-on-failure *boolean*

Synopsis	Force adjacency down on failure until session returns
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness remain-down-on-failure *boolean*
Tree	remain-down-on-failure
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict *boolean*

Synopsis	Enable BFD strict mode
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness strict *boolean*
Tree	strict
Description	When configured to **true**, the system uses BFD strict-mode. BFD strict-mode mandates that an active BFD session must exist between the OSPF neighbors before establishing a full adjacency. When configured to **true**, the router uses Link-Local Signaling (LLS) with the B-flag set to instruct the OSPF neighbors that BFD must be enabled on the link. BFD strict-mode requires both sides to have the B-flag set. During OSPFv3 BFD strict-mode operations, the router advertises the local interface IPv4 address TLV using LLS, but the SR OS router continues to use IPv6-based BFD sessions for both the IPv4 and IPv6 address families.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-mode-holddown *number*

Synopsis	Adjacency up time delay after BFD session establishment
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* bfd-liveness strict-mode-holddown *number*
Tree	strict-mode-holddown
Description	This command configures a delay timer before bringing up the OSPF adjacency after the BFD session establishment. Holddown helps mitigate potential routing churn when BFD sessions are unstable. The holddown timer is reset when a BFD session operationally toggles.

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Range	1 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

conditional-advertise-prefix *reference*

Synopsis	Policy to conditionally advertise interface prefixes
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* conditional-advertise-prefix *reference*
Tree	conditional-advertise-prefix
Description	This command specifies the policy that allows IS-IS, OSPF, and OSPFv3 to selectively advertise system or loopback interface prefixes (including associated SIDs and SRv6 locators) only when conditions defined in the route policy are met. The route policy evaluates the presence or absence of specific routes in the routing table, typically using constructs like route-exists. If the policy evaluates to accept, the interface prefix is advertised; if not, the prefix is suppressed.
Reference	**configure** policy-options policy-statement *named-item-64*
Introduced	25.10.R1
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* hello-interval *number*

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Tree	hello-interval
Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Interface type
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* interface-type *keyword*
Tree	interface-type
Description	This command specifies the interface type. **broadcast** - Broadcast network To significantly improve adjacency forming and network convergence, configure a network as point-to-point if only two routers are connected, even if the network is a broadcast media such as Ethernet. **non-broadcast** - Non-broadcast network **point-to-point** - Point-to-point link Set the interface type of an Ethernet link to **point-to-point** to avoid having to carry the broadcast adjacency maintenance overhead if the Ethernet link provided is used as a point-to-point. **p2mp-nbma** - Point-to-multipoint on a link without broadcast or multicast support No designated router or backup designated router is elected on this type of interface and all OSPF neighbors connect through individual point-to-point links. Only VPRN and IES services interfaces support this interface type. **secondary** - Multiple secondary adjacencies allowed A **secondary** interface allows multiple secondary adjacencies, in addition to the primary adjacency, to be established over a single IP interface. This interface type can also be applied to the system interface and to loopback interfaces to allow them to participate in multiple areas, although no adjacencies are formed over these types of interfaces.
Options	broadcast, non-broadcast, point-to-point, secondary, p2mp-nbma
Introduced	25.3.R2
Platforms	SAR Gen 2

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load-balancing-weight *number*

Synopsis	Load-balancing weight
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enter the **loopfree-alternate** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate
Tree	loopfree-alternate
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude *boolean*

Synopsis	Enable fast reroute at OSPF primary interface level
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate exclude *boolean*
Tree	exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

policy-map

Synopsis	Enable the **policy-map** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map
Tree	policy-map
Introduced	25.3.R2

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Platforms	SAR Gen 2

route-nh-template *reference*

Synopsis	Route next hop policy template name
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* loopfree-alternate policy-map route-nh-template *reference*
Tree	route-nh-template
Reference	**configure** routing-options route-next-hop-policy template *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-filter-out *keyword*

Synopsis	LSA flooding reduction
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* lsa-filter-out *keyword*
Tree	lsa-filter-out
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Route cost metric for the interface
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* metric *number*
Tree	metric
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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mtu *number*

Synopsis	MTU for the OSPF to use on the interface
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* mtu *number*
Tree	mtu
Range	512 to 9786
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Add a list entry for **neighbor**
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* neighbor *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IPv6 link local address of the OSPFv3 neighbor
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* neighbor *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	neighbor
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

passive *boolean*

Synopsis	Advertise passive interfaces as OSPF interfaces
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* passive *boolean*
Tree	passive
Introduced	25.3.R2

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Platforms	SAR Gen 2

poll-interval *number*

Synopsis	Interval for Hellos to non-adjacent OSPF NBMA neighbor
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* poll-interval *number*
Tree	poll-interval
Max. range	0 to 4294967295
Units	seconds
Default	120
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Interface priority in the DR election on the subnet
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* priority *number*
Tree	priority
Range	0 to 255
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2

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Platforms	SAR Gen 2

rib-priority *keyword*

Synopsis	RIB priority for OSPF
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* rib-priority *keyword*
Tree	rib-priority
Options	high
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* interface *interface-name* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

key-rollover-interval *number*

Synopsis	Key rollover interval
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* key-rollover-interval *number*
Tree	key-rollover-interval
Range	10 to 300
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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loopfree-alternate-exclude *boolean*

Synopsis	Exclude interfaces in OSPF areas in SPF LFA computation
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* loopfree-alternate-exclude *boolean*
Tree	loopfree-alternate-exclude
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nssa

Synopsis	Enable the **nssa** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa
Tree	nssa
Introduced	25.3.R2
Platforms	SAR Gen 2

area-range [ip-prefix-mask] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **area-range** list instance
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix-mask**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Address ranges to create on an ABR for route summarization or suppression
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa area-range *(ipv4-prefix | ipv6-prefix)*
Tree	area-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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advertise *boolean*

Synopsis	Advertise summarized range of addresses to other areas
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa area-range *(ipv4-prefix | ipv6-prefix)* advertise *boolean*
Tree	advertise
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

originate-default-route

Synopsis	Enable the **originate-default-route** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa originate-default-route
Tree	originate-default-route
Introduced	25.3.R2
Platforms	SAR Gen 2

adjacency-check *boolean*

Synopsis	Perform adjacency checks before originating a default route
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa originate-default-route adjacency-check *boolean*
Tree	adjacency-check
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

type-nssa *boolean*

Synopsis	Generate a default route using NSSA-LSA type
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa originate-default-route type-nssa *boolean*
Tree	type-nssa
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-external *boolean*

Synopsis	Redistribute external routes into the NSSA
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa redistribute-external *boolean*
Tree	redistribute-external
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the NSSA on an ABR
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* nssa summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

stub

Synopsis	Enable the **stub** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* stub
Tree	stub
Introduced	25.3.R2
Platforms	SAR Gen 2

default-metric *number*

Synopsis	Metric used by ABR for default route into the stub area
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* stub default-metric *number*

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Tree	default-metric
Range	1 to 16777214
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

summaries *boolean*

Synopsis	Send summary (Type 3) LSAs into the stub area on an ABR
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* stub summaries *boolean*
Tree	summaries
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

virtual-link [router-id] *ipv4-address* transit-area *reference*

Synopsis	Enter the **virtual-link** list instance
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-id**] *ipv4-address*

Synopsis	Router identity of the virtual link neighbor
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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transit-area *reference*

Synopsis	Transit area that links backbone area to area without physical connection with the backbone
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference*
Tree	virtual-link
Reference	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the OSPF interface
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication

Synopsis	Enable the **authentication** context
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication
Tree	authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound *reference*

Synopsis	sa-name

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Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication inbound *reference*
Tree	inbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound *reference*

Synopsis	sa-name
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* authentication outbound *reference*
Tree	outbound
Reference	**configure** ipsec static-sa *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

dead-interval *number*

Synopsis	OSPF wait time for Hellos before neighbor declared down
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* dead-interval *number*
Tree	dead-interval
Range	2 to 65535
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Time between OSPF Hellos of this interface
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* hello-interval *number*
Tree	hello-interval

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Range	1 to 65535
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

retransmit-interval *number*

Synopsis	Time before OSPF retransmits an unacknowledged LSA
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* retransmit-interval *number*
Tree	retransmit-interval
Range	1 to 1800
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

transit-delay *number*

Synopsis	Required LSA transmit time
Context	**configure** service vprn *service-name* ospf3 *number* area *ipv4-address* virtual-link *ipv4-address* transit-area *reference* transit-delay *number*
Tree	transit-delay
Range	1 to 1800
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** service vprn *service-name* ospf3 *number* export-limit
Tree	export-limit

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Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** service vprn *service-name* ospf3 *number* export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** service vprn *service-name* ospf3 *number* export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Export policies that determine exported routes
Context	**configure** service vprn *service-name* ospf3 *number* export-policy *reference*
Tree	export-policy
Description	This command configures export routing policies for the routes exported from the routing table to IS-IS. If the export policy is undefined, the system does not export non IS-IS routes from the routing table manager to IS-IS. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied. If the **aggregate** command is also configured in the **configure router** context, the aggregation is applied before the export policy is applied. Routing policies are created in the **configure router policy-options** context.

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Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

external-db-overflow

Synopsis	Enable the **external-db-overflow** context
Context	**configure** service vprn *service-name* ospf3 *number* external-db-overflow
Tree	external-db-overflow
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Time during which the router operates in overload
Context	**configure** service vprn *service-name* ospf3 *number* external-db-overflow interval *number*
Tree	interval
Range	0 to 2147483647
Units	seconds
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *number*

Synopsis	Number of external LSA at which overload is triggered
Context	**configure** service vprn *service-name* ospf3 *number* external-db-overflow limit *number*
Tree	limit
Range	0 to 2147483647
Default	0
Introduced	25.3.R2

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Platforms	SAR Gen 2

external-preference *number*

Synopsis	Preference for OSPF external routes
Context	**configure** service vprn *service-name* ospf3 *number* external-preference *number*
Tree	external-preference
Range	1 to 255
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-restart

Synopsis	Enable the **graceful-restart** context
Context	**configure** service vprn *service-name* ospf3 *number* graceful-restart
Tree	graceful-restart
Description	Commands in this context enable OSPF graceful restart (GR) to minimize service interruption. When the control plane of a GR-capable router fails or restarts, the neighboring routers (GR helpers) temporarily preserve OSPF forwarding information. Traffic continues to be forwarded to the restarting router using the last-known forwarding tables. If the control plane of the restarting router becomes operationally and administratively up within the grace period, the restarting router resumes normal OSPF operation. If the grace period expires, the restarting router is presumed inactive and the OSPF topology is recalculated to route traffic around the failure.
Introduced	25.3.R2
Platforms	SAR Gen 2

helper-mode *boolean*

Synopsis	Enable graceful restart helper for OSPF
Context	**configure** service vprn *service-name* ospf3 *number* graceful-restart helper-mode *boolean*
Tree	helper-mode
Description	When configured to **true**, the router operates in OSPF graceful restart helper mode and assists restarting neighbors by maintaining adjacencies and forwarding state during their graceful restart interval.

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When configured to **false**, the router does not provide helper support and does not preserve adjacency or forwarding state for neighbors performing a graceful restart.

Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

strict-lsa-checking *boolean*

Synopsis	Perform strict LSA checking during graceful restart
Context	**configure** service vprn *service-name* ospf3 *number* graceful-restart strict-lsa-checking *boolean*
Tree	strict-lsa-checking
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-dn-bit *boolean*

Synopsis	Ignore the DN bit for OSPF LSA packets for the instance
Context	**configure** service vprn *service-name* ospf3 *number* ignore-dn-bit *boolean*
Tree	ignore-dn-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policy names for routes from IGP to route table
Context	**configure** service vprn *service-name* ospf3 *number* import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2

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Platforms	SAR Gen 2

loopfree-alternate

Synopsis	Enable the **loopfree-alternate** context
Context	**configure** service vprn *service-name* ospf3 *number* loopfree-alternate
Tree	loopfree-alternate
Description	Commands in this context enable Loop-Free Alternate (LFA) computation by SPF under the IS-IS routing protocol level or under the OSPF routing protocol instance. When this command is enabled, it instructs the IGP SPF to attempt to pre-compute both a primary next hop and an LFA next hop for every learned prefix. IS-IS computes the primary SPF first and then computes the LFA SPF. The LFA backup next hop is only available after the LFA SPF is completed. When found, the LFA next hop is populated into the routing table along with the primary next hop for the prefix.
Introduced	25.3.R2
Platforms	SAR Gen 2

exclude

Synopsis	Enter the **exclude** context
Context	**configure** service vprn *service-name* ospf3 *number* loopfree-alternate exclude
Tree	exclude
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-policy *reference*

Synopsis	Policy to exclude prefixes from LFA SPF calculation
Context	**configure** service vprn *service-name* ospf3 *number* loopfree-alternate exclude prefix-policy *reference*
Tree	prefix-policy
Description	This command specifies the name of the policy for the prefixes to exclude from the LFA SPF calculation. An excluded prefix is not included in LFA calculation regardless of its priority. The prefix tag is, however, used in the main SPF.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5

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Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-import *boolean*

Synopsis	Submit routes into the multicast Route Table Manager
Context	**configure** service vprn *service-name* ospf3 *number* multicast-import *boolean*
Tree	multicast-import
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload *boolean*

Synopsis	Change local router state to appear overloaded
Context	**configure** service vprn *service-name* ospf3 *number* overload *boolean*
Tree	overload
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-1 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** service vprn *service-name* ospf3 *number* overload-include-ext-1 *boolean*
Tree	overload-include-ext-1
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-ext-2 *boolean*

Synopsis	Advertise routes with maximum metric value for overload
Context	**configure** service vprn *service-name* ospf3 *number* overload-include-ext-2 *boolean*

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Tree	overload-include-ext-2
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-include-stub *boolean*

Synopsis	Advertise all stub interfaces with max metric value
Context	**configure** service vprn *service-name* ospf3 *number* overload-include-stub *boolean*
Tree	overload-include-stub
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-on-boot

Synopsis	Enable the **overload-on-boot** context
Context	**configure** service vprn *service-name* ospf3 *number* overload-on-boot
Tree	overload-on-boot
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time during which the router operates in overload state before reestablishing normal operations
Context	**configure** service vprn *service-name* ospf3 *number* overload-on-boot timeout *number*
Tree	timeout
Range	60 to 1800
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Preference for OSPF internal routes
Context	**configure** service vprn *service-name* ospf3 *number* preference *number*
Tree	preference
Range	1 to 255
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

reference-bandwidth *number*

Synopsis	Bandwidth to reference default costing of interfaces
Context	**configure** service vprn *service-name* ospf3 *number* reference-bandwidth *number*
Tree	reference-bandwidth
Range	1 to 18446744073709551615
Units	kilobps
Default	100000000
Introduced	25.3.R2
Platforms	SAR Gen 2

rib-priority

Synopsis	Enter the **rib-priority** context
Context	**configure** service vprn *service-name* ospf3 *number* rib-priority
Tree	rib-priority
Introduced	25.3.R2
Platforms	SAR Gen 2

high

Synopsis	Enter the **high** context
Context	**configure** service vprn *service-name* ospf3 *number* rib-priority high
Tree	high
Introduced	25.3.R2

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Platforms	SAR Gen 2

prefix-list *reference*

Synopsis	Higher priority list used during OSPF route calculation
Context	**configure** service vprn *service-name* ospf3 *number* rib-priority high prefix-list *reference*
Tree	prefix-list
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *router-id*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Unique router ID for the OSPF instance
Context	**configure** service vprn *service-name* ospf3 *number* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

rtr-adv-lsa-limit

Synopsis	Enable the **rtr-adv-lsa-limit** context
Context	**configure** service vprn *service-name* ospf3 *number* rtr-adv-lsa-limit
Tree	rtr-adv-lsa-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-only *boolean*

Synopsis	Log the event without triggering overload

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Context	**configure** service vprn *service-name* ospf3 *number* rtr-adv-lsa-limit log-only *boolean*
Tree	log-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-count *number*

Synopsis	Max number of LSAs one router can advertise
Context	**configure** service vprn *service-name* ospf3 *number* rtr-adv-lsa-limit max-lsa-count *number*
Tree	max-lsa-count
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

overload-timeout *(number | keyword)*

Synopsis	Maximum time in overload after LSA limit is reached
Context	**configure** service vprn *service-name* ospf3 *number* rtr-adv-lsa-limit overload-timeout *(number | keyword)*
Tree	overload-timeout
Range	1 to 1800
Units	seconds
Options	forever
Default	forever
Introduced	25.3.R2
Platforms	SAR Gen 2

warning-threshold *number*

Synopsis	Percentage of the max LSA count that causes a warning
Context	**configure** service vprn *service-name* ospf3 *number* rtr-adv-lsa-limit warning-threshold *number*
Tree	warning-threshold

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Range	0 to 100
Units	percent
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

suppress-dn-bit *boolean*

Synopsis	Suppress the DN bit setting for OSPF LSA packets
Context	**configure** service vprn *service-name* ospf3 *number* suppress-dn-bit *boolean*
Tree	suppress-dn-bit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enter the **timers** context
Context	**configure** service vprn *service-name* ospf3 *number* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

incremental-spf-wait *number*

Synopsis	Delay time before an incremental SPF calculation starts
Context	**configure** service vprn *service-name* ospf3 *number* timers incremental-spf-wait *number*
Tree	incremental-spf-wait
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

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lsa-accumulate *number*

Synopsis	Delay to gather LSAs before advertising to neighbors
Context	**configure** service vprn *service-name* ospf3 *number* timers lsa-accumulate *number*
Tree	lsa-accumulate
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-arrival *number*

Synopsis	Min delay between receipt of same LSAs from neighbors
Context	**configure** service vprn *service-name* ospf3 *number* timers lsa-arrival *number*
Tree	lsa-arrival
Range	0 to 600000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-generate

Synopsis	Enter the **lsa-generate** context
Context	**configure** service vprn *service-name* ospf3 *number* timers lsa-generate
Tree	lsa-generate
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-initial-wait *number*

Synopsis	First wait period between OSPF LSA generation
Context	**configure** service vprn *service-name* ospf3 *number* timers lsa-generate lsa-initial-wait *number*

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Tree	lsa-initial-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

lsa-second-wait *number*

Synopsis	Hold time between the first and second LSA generation
Context	**configure** service vprn *service-name* ospf3 *number* timers lsa-generate lsa-second-wait *number*
Tree	lsa-second-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

max-lsa-wait *number*

Synopsis	Max time between two LSAs being generated
Context	**configure** service vprn *service-name* ospf3 *number* timers lsa-generate max-lsa-wait *number*
Tree	max-lsa-wait
Range	10 to 600000
Units	milliseconds
Default	5000
Introduced	25.3.R2
Platforms	SAR Gen 2

redistribute-delay *number*

Synopsis	Hold down timer for external routes into OSPF
Context	**configure** service vprn *service-name* ospf3 *number* timers redistribute-delay *number*

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Tree	redistribute-delay
Range	0 to 1000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-wait

Synopsis	Enter the **spf-wait** context
Context	**configure** service vprn *service-name* ospf3 *number* timers spf-wait
Tree	spf-wait
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-initial-wait *number*

Synopsis	Initial SPF calculation delay after a topology change
Context	**configure** service vprn *service-name* ospf3 *number* timers spf-wait spf-initial-wait *number*
Tree	spf-initial-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-max-wait *number*

Synopsis	Max interval between two consecutive SPF calculations
Context	**configure** service vprn *service-name* ospf3 *number* timers spf-wait spf-max-wait *number*
Tree	spf-max-wait
Range	10 to 120000
Units	milliseconds

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Default	10000
Introduced	25.3.R2
Platforms	SAR Gen 2

spf-second-wait *number*

Synopsis	Hold time between the first and second SPF calculation
Context	**configure** service vprn *service-name* ospf3 *number* timers spf-wait spf-second-wait *number*
Tree	spf-second-wait
Range	10 to 100000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-import *boolean*

Synopsis	Submit routes into the unicast Route Table Manager
Context	**configure** service vprn *service-name* ospf3 *number* unicast-import *boolean*
Tree	unicast-import
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

pim

Synopsis	Enable the **pim** context
Context	**configure** service vprn *service-name* pim
Tree	pim
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of PIM
Context	**configure** service vprn *service-name* pim admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

apply-to *keyword*

Synopsis	IES and non-IES interfaces to create in PIM
Context	**configure** service vprn *service-name* pim apply-to *keyword*
Tree	apply-to
Options	all, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

bgp-nh-override *boolean*

Synopsis	Disable VRF import EC support for next-hop resolution
Context	**configure** service vprn *service-name* pim bgp-nh-override *boolean*
Tree	bgp-nh-override
Description	When configured to **true**, the RPF check is performed using IPv4 VPN AF next-hop instead of IPv4 AF VRF import extended community (EC). When configured to **false**, the RPF check is performed using IPv4 AF VRF import EC.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

import

Synopsis	Enter the **import** context

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Context	**configure** service vprn *service-name* pim import
Tree	import
Introduced	25.3.R2
Platforms	SAR Gen 2

join-policy *reference*

Synopsis	Policy name
Context	**configure** service vprn *service-name* pim import join-policy *reference*
Tree	join-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

register-policy *reference*

Synopsis	Policy name
Context	**configure** service vprn *service-name* pim import register-policy *reference*
Tree	register-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* pim interface *interface-name*
Tree	interface
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Interface name
Context	**configure** service vprn *service-name* pim interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the PIM interface
Context	**configure** service vprn *service-name* pim interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

assert-period *number*

Synopsis	Time for periodic refreshes of PIM Assert messages on an interface
Context	**configure** service vprn *service-name* pim interface *interface-name* assert-period *number*
Tree	assert-period
Range	1 to 300
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness

Synopsis	Enter the **bfd-liveness** context
Context	**configure** service vprn *service-name* pim interface *interface-name* bfd-liveness
Tree	bfd-liveness
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *boolean*

Synopsis	Use Bidirectional Forwarding Detection for IPv4 on PIM interface
Context	**configure** service vprn *service-name* pim interface *interface-name* bfd-liveness ipv4 *boolean*
Tree	ipv4
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *boolean*

Synopsis	Use Bidirectional Forwarding Detection for IPv6 on PIM interface
Context	**configure** service vprn *service-name* pim interface *interface-name* bfd-liveness ipv6 *boolean*
Tree	ipv6
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bsm-check-rtr-alert *boolean*

Synopsis	Check router alert option in bootstrap messages received
Context	**configure** service vprn *service-name* pim interface *interface-name* bsm-check-rtr-alert *boolean*
Tree	bsm-check-rtr-alert
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

hello-interval *number*

Synopsis	Frequency at which PIM Hello messages are sent over this interface
Context	**configure** service vprn *service-name* pim interface *interface-name* hello-interval *number*
Tree	hello-interval
Range	0 to 255
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

hello-multiplier *number*

Synopsis	Multiplier to determine the hold time for PIM neighbor
Context	**configure** service vprn *service-name* pim interface *interface-name* hello-multiplier *number*
Tree	hello-multiplier
Range	20 to 100
Default	35
Introduced	25.3.R2
Platforms	SAR Gen 2

improved-assert *boolean*

Synopsis	Allow improved assert processing on interface
Context	**configure** service vprn *service-name* pim interface *interface-name* improved-assert *boolean*
Tree	improved-assert
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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instant-prune-echo *boolean*

Synopsis	Allow PIM to send an instant prune echo when router starts the prune pending timer for PIM interface
Context	**configure** service vprn *service-name* pim interface *interface-name* instant-prune-echo *boolean*
Tree	instant-prune-echo
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group

Synopsis	Enter the **monitor-oper-group** context
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv4 monitor-oper-group
Tree	monitor-oper-group
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Operational group identifier
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv4 monitor-oper-group name *reference*
Tree	name
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2

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Platforms	SAR Gen 2

operation *keyword*

Synopsis	Operation performed when operational group is active
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv4 monitor-oper-group operation *keyword*
Tree	operation
Options	add, subtract, set
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-delta *number*

Synopsis	Delta priority with operation when operational group is active
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv4 monitor-oper-group priority-delta *number*
Tree	priority-delta
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast *boolean*

Synopsis	Enable PIM interface operation
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv4 multicast *boolean*
Tree	multicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv6

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Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

monitor-oper-group

Synopsis	Enter the **monitor-oper-group** context
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv6 monitor-oper-group
Tree	monitor-oper-group
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Operational group identifier
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv6 monitor-oper-group name *reference*
Tree	name
Reference	**configure** service oper-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

operation *keyword*

Synopsis	Operation performed when operational group is active
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv6 monitor-oper-group operation *keyword*
Tree	operation
Options	add, subtract, set
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-delta *number*

Synopsis	Delta priority with operation when operational group is active

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Context	**configure** service vprn *service-name* pim interface *interface-name* ipv6 monitor-oper-group priority-delta *number*
Tree	priority-delta
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast *boolean*

Synopsis	Enable PIM interface operation
Context	**configure** service vprn *service-name* pim interface *interface-name* ipv6 multicast *boolean*
Tree	multicast
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

max-groups *number*

Synopsis	Maximum number of groups for the interface
Context	**configure** service vprn *service-name* pim interface *interface-name* max-groups *number*
Tree	max-groups
Range	0 | 1 to 16000
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-senders *keyword*

Synopsis	Subnet matching for the incoming data packets
Context	**configure** service vprn *service-name* pim interface *interface-name* multicast-senders *keyword*
Tree	multicast-senders
Options	auto, always, never
Default	auto
Introduced	25.3.R2

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Platforms	SAR Gen 2

priority *number*

Synopsis	DR election priority for this interface
Context	**configure** service vprn *service-name* pim interface *interface-name* priority *number*
Tree	priority
Description	This command sets the priority value to elect the DR. The DR election priority is a 32-bit unsigned number and the numerically larger priority is always preferred.
Range	1 to 4294967295
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

sticky-dr

Synopsis	Enable the **sticky-dr** context
Context	**configure** service vprn *service-name* pim interface *interface-name* sticky-dr
Tree	sticky-dr
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	DR election priority for this interface
Context	**configure** service vprn *service-name* pim interface *interface-name* sticky-dr priority *number*
Tree	priority
Range	1 to 4294967295
Default	1024
Introduced	25.3.R2
Platforms	SAR Gen 2

three-way-hello *boolean*

Synopsis	Allow three-way hello compatibility mode

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Context	**configure** service vprn *service-name* pim interface *interface-name* three-way-hello *boolean*
Tree	three-way-hello
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tracking-support *boolean*

Synopsis	Allow upstream routers to explicitly track join membership
Context	**configure** service vprn *service-name* pim interface *interface-name* tracking-support *boolean*
Tree	tracking-support
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* pim ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of PIM operation for IPv4
Context	**configure** service vprn *service-name* pim ipv4 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

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rpf-table *keyword*

Synopsis	Route table for RPF lookup
Context	**configure** service vprn *service-name* pim ipv4 rpf-table *keyword*
Tree	rpf-table
Options	rtable-m, rtable-u, both
Default	rtable-u
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** service vprn *service-name* pim ipv4 source-address
Tree	source-address
Description	Commands in this context configure the source IP address for PIM messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

register-message *ipv4-unicast-address*

Synopsis	Source IPv4 address for PIM register messages
Context	**configure** service vprn *service-name* pim ipv4 source-address register-message *ipv4-unicast-address*
Tree	register-message
Description	This command configures the source IPv4 address for register messages in this PIM instance. The IP address can be set to any unicast address, regardless of whether it resides on the node. Ensure that the specified IP address is configured on the router as a loopback or interface IP address. When unconfigured, the source IP address for register messages is selected by choosing the smallest IP address from available interfaces on the node.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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ssm-assert-compatible-mode *boolean*

Synopsis	Enable SSM assert compatible mode
Context	**configure** service vprn *service-name* pim ipv4 ssm-assert-compatible-mode *boolean*
Tree	ssm-assert-compatible-mode
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ssm-default-range *boolean*

Synopsis	SSM default range
Context	**configure** service vprn *service-name* pim ipv4 ssm-default-range *boolean*
Tree	ssm-default-range
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vprn *service-name* pim ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of PIM operation for IPv6
Context	**configure** service vprn *service-name* pim ipv6 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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rpf-table *keyword*

Synopsis	Route table for RPF lookup
Context	**configure** service vprn *service-name* pim ipv6 rpf-table *keyword*
Tree	rpf-table
Options	rtable-m, rtable-u, both
Default	rtable-u
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** service vprn *service-name* pim ipv6 source-address
Tree	source-address
Description	Commands in this context configure the source IP address for PIM messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

register-message *ipv6-unicast-address*

Synopsis	Source IPv6 address for PIM register messages
Context	**configure** service vprn *service-name* pim ipv6 source-address register-message *ipv6-unicast-address*
Tree	register-message
Description	This command configures the source IPv6 address for register messages in this PIM instance. The IP address can be set to any unicast address, regardless of whether it resides on the node. Ensure that the specified IP address is configured on the router as a loopback or interface IP address. When unconfigured, the source IP address for register messages is selected by choosing the smallest IP address from available interfaces on the node.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ssm-default-range *boolean*

Synopsis	SSM default range
Context	**configure** service vprn *service-name* pim ipv6 ssm-default-range *boolean*
Tree	ssm-default-range
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

mtu-over-head *number*

Synopsis	MVPN tunnel MTU size reduction to allow for BIER header
Context	**configure** service vprn *service-name* pim mtu-over-head *number*
Tree	mtu-over-head
Description	This command subtracts the specified value from the MVPN tunnel MTU to allow a BIER header to be added without exceeding the network MTU.
Range	0 | 44 | 76 | 140 | 268 | 536
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

non-dr-attract-traffic *boolean*

Synopsis	Attract traffic when the router is not the designated one
Context	**configure** service vprn *service-name* pim non-dr-attract-traffic *boolean*
Tree	non-dr-attract-traffic
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rp

Synopsis	Enter the **rp** context
Context	**configure** service vprn *service-name* pim rp
Tree	rp

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Introduced	25.3.R2
Platforms	SAR Gen 2

bootstrap

Synopsis	Enter the **bootstrap** context
Context	**configure** service vprn *service-name* pim rp bootstrap
Tree	bootstrap
Introduced	25.3.R2
Platforms	SAR Gen 2

export *reference*

Synopsis	Export policy to control the flow of bootstrap messages
Context	**configure** service vprn *service-name* pim rp bootstrap export *reference*
Tree	export
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import *reference*

Synopsis	Import policy to control the flow of bootstrap messages
Context	**configure** service vprn *service-name* pim rp bootstrap import *reference*
Tree	import
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** service vprn *service-name* pim rp ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

anycast [ipv4-address] *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*

Synopsis	Add a list entry for **anycast**
Context	**configure** service vprn *service-name* pim rp ipv4 anycast *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*
Tree	anycast
Introduced	25.3.R2
Platforms	SAR Gen 2

[ipv4-address] *ipv4-unicast-address*

Synopsis	Loopback IP address shared by routes in RP set
Context	**configure** service vprn *service-name* pim rp ipv4 anycast *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*
Tree	anycast
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

rp-set-peer *ipv4-unicast-address*

Synopsis	Peer in the anycast RP-set
Context	**configure** service vprn *service-name* pim rp ipv4 anycast *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*
Tree	anycast
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-rp-discovery *boolean*

Synopsis	Enable auto-RP discovery mode and auto-RP listener
Context	**configure** service vprn *service-name* pim rp ipv4 auto-rp-discovery *boolean*
Tree	auto-rp-discovery
Description	When configured to **true**, the system enables the auto-RP protocol in discovery mode and the auto-RP listener functionality.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

bsr-candidate

Synopsis	Enter the **bsr-candidate** context
Context	**configure** service vprn *service-name* pim rp ipv4 bsr-candidate
Tree	bsr-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Candidate BSR IP address for Bootstrap Router election
Context	**configure** service vprn *service-name* pim rp ipv4 bsr-candidate address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the Candidate BSR
Context	**configure** service vprn *service-name* pim rp ipv4 bsr-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-mask-len *number*

Synopsis	Length for bootstrap hash mask
Context	**configure** service vprn *service-name* pim rp ipv4 bsr-candidate hash-mask-len *number*
Tree	hash-mask-len
Range	0 to 32
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Bootstrap priority of the router
Context	**configure** service vprn *service-name* pim rp ipv4 bsr-candidate priority *number*
Tree	priority
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

candidate *boolean*

Synopsis	Enable auto-RP to advertise candidate RP information
Context	**configure** service vprn *service-name* pim rp ipv4 candidate *boolean*
Tree	candidate

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Description	When configured to **true**, the auto-RP is enabled to advertise the candidate RP information. The auto-RP candidate RP announces the candidate RP messages on the 224.0.1.39 multicast address. This functionality is in addition to the listener functionality enabled by the auto RP discovery. When configured to **false**, the candidate RP information is not specified.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mapping-agent *boolean*

Synopsis	Enable the mapping agent on the node
Context	**configure** service vprn *service-name* pim rp ipv4 mapping-agent *boolean*
Tree	mapping-agent
Description	When configured to **true**, the mapping agent is enabled on the node. The auto-RP MA observes the **auto-rp-announcement** messages, selects the RP and generates the RP discovery 224.0.1.40 messages. This functionality is in addition to the auto-RP discovery functionality.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

rp-candidate

Synopsis	Enter the **rp-candidate** context
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate
Tree	rp-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	Local RP address
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate address *ipv4-unicast-address*
Tree	address

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Description	This command specifies the local RP address that is sent in the RP candidate advertisements to the Bootstrap Router.
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate RP
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ipv4-prefix] *ipv4-multicast-prefix*

Synopsis	Add a list entry for **group-range**
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate group-range *ipv4-multicast-prefix*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-prefix**] *ipv4-multicast-prefix*

Synopsis	IPv4 address and prefix length
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate group-range *ipv4-multicast-prefix*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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holdtime *number*

Synopsis	Time during which the neighboring router considers this router to be up
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate holdtime *number*
Tree	holdtime
Range	5 to 255
Units	seconds
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Candidate RP priority
Context	**configure** service vprn *service-name* pim rp ipv4 rp-candidate priority *number*
Tree	priority
Range	0 to 255
Default	192
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vprn *service-name* pim rp ipv4 static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv4-address] *ipv4-unicast-address*

Synopsis	Enter the **address** list instance
Context	**configure** service vprn *service-name* pim rp ipv4 static address *ipv4-unicast-address*
Tree	address
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**ipv4-address**] *ipv4-unicast-address*

Synopsis	IPv4 address for the static RP
Context	**configure** service vprn *service-name* pim rp ipv4 static address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-prefix [ipv4-prefix] *ipv4-multicast-prefix*

Synopsis	Add a list entry for **group-prefix**
Context	**configure** service vprn *service-name* pim rp ipv4 static address *ipv4-unicast-address* group-prefix *ipv4-multicast-prefix*
Tree	group-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv4-prefix**] *ipv4-multicast-prefix*

Synopsis	IPv4 address and prefix length
Context	**configure** service vprn *service-name* pim rp ipv4 static address *ipv4-unicast-address* group-prefix *ipv4-multicast-prefix*
Tree	group-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

override *boolean*

Synopsis	Change the precedence for static RP over dynamically learnt RP

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Context	**configure** service vprn *service-name* pim rp ipv4 static address *ipv4-unicast-address* override *boolean*
Tree	override
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** service vprn *service-name* pim rp ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

anycast [ipv6-address] *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*

Synopsis	Add a list entry for **anycast**
Context	**configure** service vprn *service-name* pim rp ipv6 anycast *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*
Tree	anycast
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-unicast-address*

Synopsis	Loopback IP address shared by routes in RP set
Context	**configure** service vprn *service-name* pim rp ipv6 anycast *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*
Tree	anycast
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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rp-set-peer *ipv6-unicast-address*

Synopsis	Peer in the anycast RP set
Context	**configure** service vprn *service-name* pim rp ipv6 anycast *ipv6-unicast-address* rp-set-peer *ipv6-unicast-address*
Tree	anycast
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

bsr-candidate

Synopsis	Enter the **bsr-candidate** context
Context	**configure** service vprn *service-name* pim rp ipv6 bsr-candidate
Tree	bsr-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-unicast-address*

Synopsis	Candidate BSR IP address for Bootstrap Router election
Context	**configure** service vprn *service-name* pim rp ipv6 bsr-candidate address *ipv6-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate BSR
Context	**configure** service vprn *service-name* pim rp ipv6 bsr-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

hash-mask-len *number*

Synopsis	Length for bootstrap hash mask
Context	**configure** service vprn *service-name* pim rp ipv6 bsr-candidate hash-mask-len *number*
Tree	hash-mask-len
Range	0 to 128
Default	126
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Bootstrap priority of the router
Context	**configure** service vprn *service-name* pim rp ipv6 bsr-candidate priority *number*
Tree	priority
Range	0 to 255
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

embedded-rp

Synopsis	Enable the **embedded-rp** context
Context	**configure** service vprn *service-name* pim rp ipv6 embedded-rp
Tree	embedded-rp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of embedded RP
Context	**configure** service vprn *service-name* pim rp ipv6 embedded-rp admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Synopsis	Add a list entry for **group-range**
Context	**configure** service vprn *service-name* pim rp ipv6 embedded-rp group-range *ipv6-multicast-prefix*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-multicast-prefix*

Synopsis	IPv6 address and prefix length
Context	**configure** service vprn *service-name* pim rp ipv6 embedded-rp group-range *ipv6-multicast-prefix*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

rp-candidate

Synopsis	Enter the **rp-candidate** context
Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate
Tree	rp-candidate
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-unicast-address*

Synopsis	Local RP address

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Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate address *ipv6-unicast-address*
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the Candidate RP
Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Synopsis	Add a list entry for **group-range**
Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate group-range *ipv6-multicast-prefix*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-multicast-prefix*

Synopsis	IPv6 address and prefix length
Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate group-range *ipv6-multicast-prefix*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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holdtime *number*

Synopsis	Time during which the neighboring router considers this router to be up
Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate holdtime *number*
Tree	holdtime
Range	5 to 255
Units	seconds
Default	150
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	Candidate RP priority
Context	**configure** service vprn *service-name* pim rp ipv6 rp-candidate priority *number*
Tree	priority
Range	0 to 255
Default	192
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context
Context	**configure** service vprn *service-name* pim rp ipv6 static
Tree	static
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ipv6-address] *ipv6-unicast-address*

Synopsis	Enter the **address** list instance
Context	**configure** service vprn *service-name* pim rp ipv6 static address *ipv6-unicast-address*
Tree	address
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**ipv6-address**] *ipv6-unicast-address*

Synopsis	Static IP address of the RP
Context	**configure** service vprn *service-name* pim rp ipv6 static address *ipv6-unicast-address*
Tree	address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group-prefix [ipv6-prefix] *ipv6-multicast-prefix*

Synopsis	Add a list entry for **group-prefix**
Context	**configure** service vprn *service-name* pim rp ipv6 static address *ipv6-unicast-address* group-prefix *ipv6-multicast-prefix*
Tree	group-prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipv6-prefix**] *ipv6-multicast-prefix*

Synopsis	IPv6 address and prefix length
Context	**configure** service vprn *service-name* pim rp ipv6 static address *ipv6-unicast-address* group-prefix *ipv6-multicast-prefix*
Tree	group-prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

override *boolean*

Synopsis	Change the precedence for static RP over dynamically learnt RP
Context	**configure** service vprn *service-name* pim rp ipv6 static address *ipv6-unicast-address* override *boolean*
Tree	override

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

spt-switchover [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **spt-switchover** list instance
Context	**configure** service vprn *service-name* pim spt-switchover *(ipv4-prefix | ipv6-prefix)*
Tree	spt-switchover
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP address and mask length
Context	**configure** service vprn *service-name* pim spt-switchover *(ipv4-prefix | ipv6-prefix)*
Tree	spt-switchover
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

threshold *(number | keyword)*

Synopsis	SPT switchover threshold
Context	**configure** service vprn *service-name* pim spt-switchover *(ipv4-prefix | ipv6-prefix)* threshold *(number | keyword)*
Tree	threshold
Range	1 to 4294967294
Units	kilobps
Options	infinity
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ssm-groups

Synopsis	Enter the **ssm-groups** context
Context	**configure** service vprn *service-name* pim ssm-groups
Tree	ssm-groups
Introduced	25.3.R2
Platforms	SAR Gen 2

group-range [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Add a list entry for **group-range**
Context	**configure** service vprn *service-name* pim ssm-groups group-range *(ipv4-prefix | ipv6-prefix)*
Tree	group-range
Introduced	25.3.R2
Platforms	SAR Gen 2

[ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP address and mask length
Context	**configure** service vprn *service-name* pim ssm-groups group-range *(ipv4-prefix | ipv6-prefix)*
Tree	group-range
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	**configure** service vprn *service-name* radius
Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

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server [name] *named-item*

Synopsis	Enter the **server** list instance
Context	**configure** service vprn *service-name* radius server *named-item*
Tree	server
Max. instances	64
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	External RADIUS server name
Context	**configure** service vprn *service-name* radius server *named-item*
Tree	server
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accept-coa *boolean*

Synopsis	Process Change of Authorization (CoA) messages
Context	**configure** service vprn *service-name* radius server *named-item* accept-coa *boolean*
Tree	accept-coa
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

acct-port *number*

Synopsis	UDP port number of the RADIUS for accounting events
Context	**configure** service vprn *service-name* radius server *named-item* acct-port *number*
Tree	acct-port

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Range	1 to 65535
Default	1813
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the RADIUS server
Context	**configure** service vprn *service-name* radius server *named-item* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

auth-port *number*

Synopsis	UDP port number of the RADIUS to be used as match criteria
Context	**configure** service vprn *service-name* radius server *named-item* auth-port *number*
Tree	auth-port
Range	1 to 65535
Default	1812
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* radius server *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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insert-message-authenticator *boolean*

Synopsis	Insert Message-Authenticator in Access-Request
Context	**configure** service vprn *service-name* radius server *named-item* insert-message-authenticator *boolean*
Tree	insert-message-authenticator
Description	When configured to **true**, the router inserts a Message-Authenticator attribute as the first attribute in Access-Request messages.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

pending-requests-limit *number*

Synopsis	Limit of the number for pending RADIUS requests
Context	**configure** service vprn *service-name* radius server *named-item* pending-requests-limit *number*
Tree	pending-requests-limit
Range	1 to 4096
Default	4096
Introduced	25.3.R2
Platforms	SAR Gen 2

require-message-authenticator *boolean*

Synopsis	Require Message-Authenticator in Access-Request reply
Context	**configure** service vprn *service-name* radius server *named-item* require-message-authenticator *boolean*
Tree	require-message-authenticator
Description	When configured to **true**, the router silently drops responses to Access-Requests without a Message-Authenticator attribute.
Default	false
Introduced	26.3.R1
Platforms	SAR Gen 2

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secret *encrypted-leaf*

Synopsis	Secret key associated with this RADIUS server
Context	**configure** service vprn *service-name* radius server *named-item* secret *encrypted-leaf*
Tree	secret
Description	This command specifies the secret key associated with this RADIUS server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rip

Synopsis	Enable the **rip** context
Context	**configure** service vprn *service-name* rip
Tree	rip
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIP instance
Context	**configure** service vprn *service-name* rip admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication password passed between RIP neighbors

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Context	**configure** service vprn *service-name* rip authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication password to be passed between RIP neighbors. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication password from the configuration and disables authentication. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type used between RIP neighbors
Context	**configure** service vprn *service-name* rip authentication-type *keyword*
Tree	authentication-type
Description	This command sets the type of authentication to be used between RIP neighbors. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication type from the configuration and effectively disables authentication.
Options	none, password, md5, md20
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** service vprn *service-name* rip bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency.

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	When configured to **false**, this command removes BFD from the associated protocol adjacency.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** service vprn *service-name* rip check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* rip description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** service vprn *service-name* rip export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

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log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** service vprn *service-name* rip export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** service vprn *service-name* rip export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies to determine exported routes
Context	**configure** service vprn *service-name* rip export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *named-item*

Synopsis	Enter the **group** list instance
Context	**configure** service vprn *service-name* rip group *named-item*

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Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *named-item*

Synopsis	RIP group name
Context	**configure** service vprn *service-name* rip group *named-item*
Tree	group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of RIP neighbor interface group
Context	**configure** service vprn *service-name* rip group *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication password passed between RIP neighbors
Context	**configure** service vprn *service-name* rip group *named-item* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication password to be passed between RIP neighbors. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed.

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When unconfigured, the authentication password is removed from the configuration and authentication is disabled.

This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 102

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-type *keyword*

Synopsis Authentication type

Context **configure** service vprn *service-name* rip group *named-item* authentication-type *keyword*

Tree authentication-type

Description This command configures the type of authentication to be used.

The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed.

When unconfigured, this command removes the authentication type from the configuration and effectively disables authentication.

Options none, password, md5, md20

Introduced 25.3.R2

Platforms SAR Gen 2

bfd-liveness *boolean*

Synopsis Enable BFD to control the state of protocol adjacency

Context **configure** service vprn *service-name* rip group *named-item* bfd-liveness *boolean*

Tree bfd-liveness

Description When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency.

When configured to **false**, this command removes BFD from the associated protocol adjacency.

Introduced 25.3.R2

Platforms SAR Gen 2

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check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** service vprn *service-name* rip group *named-item* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* rip group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** service vprn *service-name* rip group *named-item* export-policy *reference*
Tree	export-policy
Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2

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Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** service vprn *service-name* rip group *named-item* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes per RIP update message
Context	**configure** service vprn *service-name* rip group *named-item* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from a RIP neighbor
Context	**configure** service vprn *service-name* rip group *named-item* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-out *number*

Synopsis	Metric added to routes exported into RIP
Context	**configure** service vprn *service-name* rip group *named-item* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

neighbor [interface-name] *interface-name*

Synopsis	Enter the **neighbor** list instance
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name*
Tree	neighbor
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIP neighbor interface
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication password passed between RIP neighbors
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command sets the authentication password to be passed between RIP neighbors. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication password from the configuration and disables authentication. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* authentication-type *keyword*
Tree	authentication-type
Description	This command configures the type of authentication to be used. The authentication type and authentication key must match exactly for the RIP message to be considered authentic and processed. When unconfigured, this command removes the authentication type from the configuration and effectively disables authentication.
Options	none, password, md5, md20
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* export-policy *reference*
Tree	export-policy
Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes per RIP update message

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Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from a RIP neighbor
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIP
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* receive *keyword*
Tree	receive
Options	version-1, version-2, both, none
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIP version and method used to send RIP updates
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* send *keyword*
Tree	send
Options	none, version-1, broadcast, multicast, unicast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Introduced	25.3.R2
Platforms	SAR Gen 2

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timers

Synopsis	Enable the **timers** context
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-address [address] *ipv4-unicast-address*

Synopsis	Add a list entry for **unicast-address**
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* unicast-address *ipv4-unicast-address*
Tree	unicast-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv4-unicast-address*

Synopsis	Unicast IPv6 address for the neighbor
Context	**configure** service vprn *service-name* rip group *named-item* neighbor *interface-name* unicast-address *ipv4-unicast-address*
Tree	unicast-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Route preference
Context	**configure** service vprn *service-name* rip group *named-item* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** service vprn *service-name* rip group *named-item* receive *keyword*
Tree	receive
Options	version-1, version-2, both, none
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIP version and method used to send RIP updates
Context	**configure** service vprn *service-name* rip group *named-item* send *keyword*
Tree	send
Options	none, version-1, broadcast, multicast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** service vprn *service-name* rip group *named-item* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity).

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When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.

Introduced 25.3.R2

Platforms SAR Gen 2

timers

Synopsis Enable the **timers** context

Context **configure** service vprn *service-name* rip group *named-item* timers

Tree timers

Introduced 25.3.R2

Platforms SAR Gen 2

flush *number*

Synopsis RIP flush timer

Context **configure** service vprn *service-name* rip group *named-item* timers flush *number*

Tree flush

Description This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.

Range 1 to 1200

Units seconds

Notes This element is mandatory.

Introduced 25.3.R2

Platforms SAR Gen 2

timeout *number*

Synopsis RIP timeout timer

Context **configure** service vprn *service-name* rip group *named-item* timers timeout *number*

Tree timeout

Description This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.

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Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** service vprn *service-name* rip group *named-item* timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policies to decide routes for routing table
Context	**configure** service vprn *service-name* rip import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the RIP message
Context	**configure** service vprn *service-name* rip message-size *number*
Tree	message-size
Range	25 to 255

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Default	25
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from a RIP neighbor
Context	**configure** service vprn *service-name* rip metric-in *number*
Tree	metric-in
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIP
Context	**configure** service vprn *service-name* rip metric-out *number*
Tree	metric-out
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** service vprn *service-name* rip preference *number*
Tree	preference
Range	1 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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propagate-metric *boolean*

Synopsis	Enable the BGP MED used to configure the RIP metric
Context	**configure** service vprn *service-name* rip propagate-metric *boolean*
Tree	propagate-metric
Description	When configured to **true**, this command enables the BGP MED to be used to configure the RIP metric at the BGP to RIP transition on egress routers. When configured to **false**, this command sets the RIP metric to the optional value configured with the **metric-out** command plus one.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** service vprn *service-name* rip receive *keyword*
Tree	receive
Options	version-1, version-2, both, none
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIP version and method used to send RIP updates
Context	**configure** service vprn *service-name* rip send *keyword*
Tree	send
Options	none, version-1, broadcast, multicast
Default	broadcast
Introduced	25.3.R2
Platforms	SAR Gen 2

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split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** service vprn *service-name* rip split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context
Context	**configure** service vprn *service-name* rip timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** service vprn *service-name* rip timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** service vprn *service-name* rip timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** service vprn *service-name* rip timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ripng

Synopsis	Enable the **ripng** context
Context	**configure** service vprn *service-name* ripng
Tree	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the RIPng instance
Context	**configure** service vprn *service-name* ripng admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** service vprn *service-name* ripng bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** service vprn *service-name* ripng check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* ripng description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-limit

Synopsis	Enable the **export-limit** context
Context	**configure** service vprn *service-name* ripng export-limit
Tree	export-limit
Introduced	25.3.R2
Platforms	SAR Gen 2

log-percent *number*

Synopsis	Export limit before warning and SNMP notification sent
Context	**configure** service vprn *service-name* ripng export-limit log-percent *number*
Tree	log-percent
Range	1 to 100
Introduced	25.3.R2
Platforms	SAR Gen 2

number *number*

Synopsis	Maximum routes or prefixes exported from route table
Context	**configure** service vprn *service-name* ripng export-limit number *number*
Tree	number
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies to determine exported routes
Context	**configure** service vprn *service-name* ripng export-policy *reference*
Tree	export-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

group [group-name] *named-item*

Synopsis	Enter the **group** list instance
Context	**configure** service vprn *service-name* ripng group *named-item*
Tree	group
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group-name**] *named-item*

Synopsis	RIP group name
Context	**configure** service vprn *service-name* ripng group *named-item*
Tree	group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of RIPng neighbor interface group
Context	**configure** service vprn *service-name* ripng group *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** service vprn *service-name* ripng group *named-item* bfd-liveness *boolean*
Tree	bfd-liveness
Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** service vprn *service-name* ripng group *named-item* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* ripng group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** service vprn *service-name* ripng group *named-item* export-policy *reference*
Tree	export-policy
Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** service vprn *service-name* ripng group *named-item* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*

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Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the message
Context	**configure** service vprn *service-name* ripng group *named-item* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from the neighbor
Context	**configure** service vprn *service-name* ripng group *named-item* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIPng
Context	**configure** service vprn *service-name* ripng group *named-item* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

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neighbor [interface-name] *reference*

Synopsis	Enter the **neighbor** list instance
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference*
Tree	neighbor
Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *reference*

Synopsis	IP interface name
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference*
Tree	neighbor
Reference	**configure** service vprn *service-name* interface *interface-name*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the RIPng neighbor
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bfd-liveness *boolean*

Synopsis	Enable BFD to control the state of protocol adjacency
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* bfd-liveness *boolean*
Tree	bfd-liveness

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Description	When configured to **true**, this command enables BFD to control the state of the associated protocol adjacency. When configured to **false**, this command removes BFD from the associated protocol adjacency.
Introduced	25.3.R2
Platforms	SAR Gen 2

check-zero *boolean*

Synopsis	Enable checking of mandatory zero fields
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* check-zero *boolean*
Tree	check-zero
Description	When configured to **true**, this command enables checking of the mandatory zero fields in the RIPv1 and RIPv2 specifications and rejecting non-compliant RIP messages. When configured to **false**, this command disables the check and allows the receipt of RIP messages even if the mandatory zero fields are non-zero.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

export-policy *reference*

Synopsis	Policies used to rule which routes are exported to RIP
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* export-policy *reference*
Tree	export-policy

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Description	This command specifies the export route policies used to determine which routes are exported to RIP. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Policies to decide routes accepted from RIP neighbors
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* import-policy *reference*
Tree	import-policy
Description	This command configures import route policies to determine which routes are accepted from RIP neighbors. If multiple policy names are specified, the policies are evaluated in the order they are specified. The first policy that matches is applied.
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the message
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* message-size *number*
Tree	message-size
Range	25 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric-in *number*

Synopsis	Metric added to routes received from the neighbor
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* metric-in *number*
Tree	metric-in
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIPng
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* metric-out *number*
Tree	metric-out
Range	1 to 16
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* receive *keyword*
Tree	receive

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Options	none, ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIPng version and method used to send RIPng updates
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* send *keyword*
Tree	send
Options	none, ripng, unicast
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* timers
Tree	timers
Introduced	25.3.R2

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Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* timers update *number*

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Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

unicast-address [address] *ipv6-unicast-address*

Synopsis	Add a list entry for **unicast-address**
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* unicast-address *ipv6-unicast-address*
Tree	unicast-address
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *ipv6-unicast-address*

Synopsis	Unicast IPv6 address for the neighbor
Context	**configure** service vprn *service-name* ripng group *named-item* neighbor *reference* unicast-address *ipv6-unicast-address*
Tree	unicast-address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** service vprn *service-name* ripng group *named-item* preference *number*
Tree	preference
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** service vprn *service-name* ripng group *named-item* receive *keyword*
Tree	receive
Options	none, ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	RIPng version and method used to send RIPng updates
Context	**configure** service vprn *service-name* ripng group *named-item* send *keyword*
Tree	send
Options	none, ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** service vprn *service-name* ripng group *named-item* split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**. this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context

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Context	**configure** service vprn *service-name* ripng group *named-item* timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

flush *number*

Synopsis	RIP flush timer
Context	**configure** service vprn *service-name* ripng group *named-item* timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** service vprn *service-name* ripng group *named-item* timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates

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Context	**configure** service vprn *service-name* ripng group *named-item* timers update *number*
Tree	update
Range	1 to 600
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

import-policy *reference*

Synopsis	Import policies to decide routes for routing table
Context	**configure** service vprn *service-name* ripng import-policy *reference*
Tree	import-policy
Reference	**configure** policy-options policy-statement *named-item-64*
Max. instances	5
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

message-size *number*

Synopsis	Maximum number of routes in the message
Context	**configure** service vprn *service-name* ripng message-size *number*
Tree	message-size
Range	25 to 255
Default	25
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-in *number*

Synopsis	Metric added to routes received from the neighbor
Context	**configure** service vprn *service-name* ripng metric-in *number*
Tree	metric-in

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Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

metric-out *number*

Synopsis	Metric added to routes exported into RIPng
Context	**configure** service vprn *service-name* ripng metric-out *number*
Tree	metric-out
Range	1 to 16
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Route preference
Context	**configure** service vprn *service-name* ripng preference *number*
Tree	preference
Range	1 to 255
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	Accepted version on received packets
Context	**configure** service vprn *service-name* ripng receive *keyword*
Tree	receive
Options	none, ripng
Default	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

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send *keyword*

Synopsis	RIPng version and method used to send RIPng updates
Context	**configure** service vprn *service-name* ripng send *keyword*
Tree	send
Options	none, ripng
Default	ripng
Introduced	25.3.R2
Platforms	SAR Gen 2

split-horizon *boolean*

Synopsis	Enable split horizon and poison reverse
Context	**configure** service vprn *service-name* ripng split-horizon *boolean*
Tree	split-horizon
Description	When configured to **true**, this command enables the use of split horizon with poison reverse. Split-horizon with poison reverse means that routes learned from a neighbor through a given interface are advertised in updates out of the same interface but with a metric of 16 (infinity). When configured to **false**, this command enables split horizon without poison reverse. This allows the routes to be re-advertised on interfaces other than the interface that learned the route, with the advertised metric equaling an increment of the metric-in value.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

timers

Synopsis	Enable the **timers** context
Context	**configure** service vprn *service-name* ripng timers
Tree	timers
Introduced	25.3.R2
Platforms	SAR Gen 2

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flush *number*

Synopsis	RIP flush timer
Context	**configure** service vprn *service-name* ripng timers flush *number*
Tree	flush
Description	This command specifies the time a route is maintained in the RIP database after it has been declared invalid. When the timer expires, the route is flushed from the RIP database completely.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	RIP timeout timer
Context	**configure** service vprn *service-name* ripng timers timeout *number*
Tree	timeout
Description	This command specifies the RIP timeout timer. If a route is not updated by the time the timer expires, the route is declared invalid, but the route is maintained in the RIP database.
Range	1 to 1200
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

update *number*

Synopsis	Timer that controls the frequency of updates
Context	**configure** service vprn *service-name* ripng timers update *number*
Tree	update
Range	1 to 600
Units	seconds

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-id *router-id*

Synopsis	Unique router ID for the router in the AS
Context	**configure** service vprn *service-name* router-id *router-id*
Tree	router-id
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** service vprn *service-name* service-id *number*
Tree	service-id
Range	1 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

sfm-overload

Synopsis	Enable the **sfm-overload** context
Context	**configure** service vprn *service-name* sfm-overload
Tree	sfm-overload
Introduced	25.3.R2
Platforms	SAR Gen 2

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holdoff-time *number*

Synopsis	Delay in detecting SFM failures and setting overload
Context	**configure** service vprn *service-name* sfm-overload holdoff-time *number*
Tree	holdoff-time
Range	1 to 600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

sgt-qos

Synopsis	Enter the **sgt-qos** context
Context	**configure** service vprn *service-name* sgt-qos
Tree	sgt-qos
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p

Synopsis	Enter the **dot1p** context
Context	**configure** service vprn *service-name* sgt-qos dot1p
Tree	dot1p
Introduced	25.3.R2
Platforms	SAR Gen 2

application [dot1p-app-name] *keyword*

Synopsis	Enter the **application** list instance
Context	**configure** service vprn *service-name* sgt-qos dot1p application *keyword*
Tree	application
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**dot1p-app-name**] *keyword*

Synopsis	Dot1p application ID that generates control traffic
Context	**configure** service vprn *service-name* sgt-qos dot1p application *keyword*
Tree	application
Options	arp, isis, pppoe
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1p *(keyword | number)*

Synopsis	Dot1p value to the traffic generated by this application
Context	**configure** service vprn *service-name* sgt-qos dot1p application *keyword* dot1p *(keyword | number)*
Tree	dot1p
Range	0 to 7
Options	be – Best Effort l2 – Low 2 (best effort) af – Assured Forwarding (assured) l1 – Low 1 (assured) h2 – High 2 (high priority) ef – Expedited Forwarding (high priority) h1 – High 1 (high priority) nc – Network Control (high priority)
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp

Synopsis	Enter the **dscp** context
Context	**configure** service vprn *service-name* sgt-qos dscp
Tree	dscp
Introduced	25.3.R2
Platforms	SAR Gen 2

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application [dscp-app-name] *keyword*

Synopsis	Enter the **application** list instance
Context	**configure** service vprn *service-name* sgt-qos dscp application *keyword*
Tree	application
Description	Commands in this context configure DSCP remarking for self-generated application traffic. All packets generated by the configured application instance use the value configured for the DSCP name or value. The instance can be Base, router, VPRN, or management. The system uses the DSCP value configured in this instance to: • set the DSCP bits in the IP packet • signal from the CPM to the egress FC QoS policy to set the Ethernet 802.1p and MPLS EXP bits including, PPPoE, and IS-IS packets that do not carry DSCP bits • configure the DSCP value in the egress IP header (which the egress QoS policy does not overwrite)
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-app-name**] *keyword*

Synopsis	DSCP application ID that generates control traffic
Context	**configure** service vprn *service-name* sgt-qos dscp application *keyword*
Tree	application
Description	This command configures the DSCP application ID that generates control traffic.
Options	bgp, dhcp, dns, ftp, icmp, igmp, l2tp, ldp, mld, msdp, ndis, ntp, ospf, pim, radius, rip, rsvp, snmp, snmp-notification, srrp, ssh, syslog, tacplus, telnet, tftp, traceroute, vrrp, ptp, gtp, diameter, pcep, call-trace, bmp, grpc, mtrace2, http, pfcp, ibcp, bfd
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp *(keyword | number)*

Synopsis	DSCP value to the traffic generated by this application
Context	**configure** service vprn *service-name* sgt-qos dscp application *keyword* dscp *(keyword | number)*
Tree	dscp

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Range	0 to 63
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

dscp-map [dscp-name] *keyword*

Synopsis	Enter the **dscp-map** list instance
Context	**configure** service vprn *service-name* sgt-qos dscp dscp-map *keyword*
Tree	dscp-map
Introduced	25.3.R2
Platforms	SAR Gen 2

[**dscp-name**] *keyword*

Synopsis	DSCP name mapped to forwarding class
Context	**configure** service vprn *service-name* sgt-qos dscp dscp-map *keyword*
Tree	dscp-map
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

fc *keyword*

Synopsis	Value for the forwarding class for this mapping
Context	**configure** service vprn *service-name* sgt-qos dscp dscp-map *keyword* fc *keyword*
Tree	fc
Options	be – Best Effort l2 – Low 2 (best effort)

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af – Assured Forwarding (assured)
l1 – Low 1 (assured)
h2 – High 2 (high priority)
ef – Expedited Forwarding (high priority)
h1 – High 1 (high priority)
nc – Network Control (high priority)

Introduced 25.3.R2

Platforms SAR Gen 2

snmp

Synopsis Enter the **snmp** context

Context **configure** service vprn *service-name* snmp

Tree snmp

Introduced 25.3.R2

Platforms SAR Gen 2

access *boolean*

Synopsis Enable SNMP access for the VPRN service

Context **configure** service vprn *service-name* snmp access *boolean*

Tree access

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

community [community-string] *encrypted-leaf*

Synopsis Enter the **community** list instance

Context **configure** service vprn *service-name* snmp community *encrypted-leaf*

Tree community

Description Commands in this context set the SNMP community names to be used with the associated VPRN instance. These VPRN community names are used to associate SNMP v1/v2c requests with a particular VPRN context and to return a reply that contains VPRN-specific data or limit SNMP access to data in a specific VPRN instance.

VPRN SNMP communities configured with an access permission of 'r' are automatically associated with the default access group "snmp-vprn-ro" and the “vprn-view” view (read only). VPRN SNMP communities configured with an access permission of 'rw' are

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automatically associated with the default access group "snmp-vprn" and the "vprn-view" view (read/write).

The community in an SNMP v1/v2 request determines the SNMP context (that is, the VPRN number for accessing SNMP tables) and not the VPRN of the incoming interface on which the request was received. For example, when an SNMP request arrives on VPRN 5 interface "ringo" with a destination IP address equal to the "ringo" interface, but the community in the SNMP request is the community configured against VPRN 101, the SNMP request is processed using the VPRN 101 context. (the response contains information about VPRN 101). Nokia recommends avoiding the use of a simple series of VPRN SNMP community values that are similar to each other (for example, avoid my-vprncomm-1, my-vprn-comm-2, and so on).

Introduced 25.3.R2

Platforms SAR Gen 2

[**community-string**] *encrypted-leaf*

Synopsis SNMP v1/v2c community name associated with the VPRN

Context **configure** service vprn *service-name* snmp community *encrypted-leaf*

Tree community

Description This command specifies the SNMP v1/v2c community name associated with the VPRN in a protected format.

The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.

String length 1 to 166

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

access-permissions *keyword*

Synopsis Access permissions to MIB objects

Context **configure** service vprn *service-name* snmp community *encrypted-leaf* access-permissions *keyword*

Tree access-permissions

Options r, rw

Notes This element is mandatory.

Introduced 25.3.R2

Platforms SAR Gen 2

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source-access-list *reference*

Synopsis	List name used to validate the source IP address
Context	**configure** service vprn *service-name* snmp community *encrypted-leaf* source-access-list *reference*
Tree	source-access-list
Description	This command specifies the SNMP source access list to use with the SNMP community. The source access list is used to validate the source IP address of all received SNMP requests that use the community.
Reference	**configure** system security snmp source-access-list *string-not-all-spaces*
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	SNMP version
Context	**configure** service vprn *service-name* snmp community *encrypted-leaf* version *keyword*
Tree	version
Options	v1, v2c, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** service vprn *service-name* source-address
Tree	source-address
Description	Commands in this context configure the source address and application to use in all unsolicited packets.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 [application] *keyword*

Synopsis	Enter the **ipv4** list instance

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Context	**configure** service vprn *service-name* source-address ipv4 *keyword*
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**application**] *keyword*

Synopsis	Application that sets the source IPv4 address
Context	**configure** service vprn *service-name* source-address ipv4 *keyword*
Tree	ipv4
Options	telnet – Telnet packets ssh – SSH packets radius – RADIUS packets tacplus – TACACS+ packets snmptrap – SNMP trap packets syslog – Syslog packets ping – ICMP Echo Reply messages traceroute – Traceroute reply messages ntp – NTP packets cflowd – Cflowd packets ptp – PTP packets icmp-error – ICMP error messages
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 source address for the application
Context	**configure** service vprn *service-name* source-address ipv4 *keyword* address *ipv4-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a mandatory choice: **address** or **interface-name**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

interface-name *interface-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IP interface name
Context	**configure** service vprn *service-name* source-address ipv4 *keyword* interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 [application] *keyword*

Synopsis	Enter the **ipv6** list instance
Context	**configure** service vprn *service-name* source-address ipv6 *keyword*
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

[**application**] *keyword*

Synopsis	Application that sets the source IPv6 address
Context	**configure** service vprn *service-name* source-address ipv6 *keyword*
Tree	ipv6
Options	telnet – Telnet packets radius – RADIUS packets tacplus – TACACS+ packets snmptrap – SNMP trap packets syslog – Syslog packets ping – ICMPv6 Echo Reply messages traceroute – Traceroute reply messages cflowd – Cflowd packets ntp – NTP packets

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icmp6-error – ICMPv6 error messages
ssh – SSH packets
ptp – PTP packets

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv6 source address for the application
Context	**configure** service vprn *service-name* source-address ipv6 *keyword* address *ipv6-address*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Synopsis	Enter the **spoke-sdp** list instance
Context	**configure** service vprn *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
Introduced	25.3.R2
Platforms	SAR Gen 2

[**sdp-bind-id**] *sdp-bind-id*

Synopsis	SDP binding ID
Context	**configure** service vprn *service-name* spoke-sdp *sdp-bind-id*
Tree	spoke-sdp
String length	3 to 16
String format	'sdp-bind-id' must be sdp-id:vc-id (sdp 1..32767, vc 1..4294967295)
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* spoke-sdp *sdp-bind-id* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

static-routes

Synopsis	Enter the **static-routes** context
Context	**configure** service vprn *service-name* static-routes
Tree	static-routes
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down

Synopsis	Enable the **hold-down** context
Context	**configure** service vprn *service-name* static-routes hold-down
Tree	hold-down
Description	Commands in this context enable the hold-down time feature globally for static routes in the system. The static route hold-down time is a mechanism to protect from rapid, fluctuating state changes of static routes resulting from issues with reachability because of link flap. The commands in this context apply to all static routes in the VPRN and the base router instance in which this hold-down time is configured in.
Introduced	25.3.R2
Platforms	SAR Gen 2

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initial *number*

Synopsis	Value for the initial hold-down time
Context	**configure** service vprn *service-name* static-routes hold-down initial *number*
Tree	initial
Description	This command specifies the initial value of the hold-down time globally for static routes in the system. When a static route is ready to become active, it remains inactive for the hold-down time before activating the static-route. If, during this hold-down period, the static route becomes inactive again because of factors such as interface failure, the hold-down timer is reset, effectively postponing the activation of the route until the next opportunity.
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

max-value *number*

Synopsis	Maximum value of the hold-down time
Context	**configure** service vprn *service-name* static-routes hold-down max-value *number*
Tree	max-value
Description	This command specifies the maximum value of the hold-down time globally for static routes in the system.
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

multiplier *number*

Synopsis	Multiplier of the previous hold-down time
Context	**configure** service vprn *service-name* static-routes hold-down multiplier *number*
Tree	multiplier
Description	This command specifies the multiplier value by which the previous hold-down time is multiplied to calculate the new one. This value applies globally for static routes in the system.
Range	1 to 10

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

route [ip-prefix] *(ipv4-prefix | ipv6-prefix)* route-type *keyword*

Synopsis	Enter the **route** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword*
Tree	route
Description	Commands in this context create a static route entry. A prefix and netmask must be specified. After the static route context for the specified prefix and netmask has been created, additional options associated with the static route or routes may be specified through the inclusion of additional static route commands.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix and prefix length for the static routes
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword*
Tree	route
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-type *keyword*

Synopsis	Static route type
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword*
Tree	route
Options	unicast, multicast
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

blackhole

Synopsis	Enable the **blackhole** context
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole
Tree	blackhole
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-icmp *boolean*

Synopsis	Send ICMP unreachable messages when received packets match a static route with black-hole next-hop
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole generate-icmp *boolean*
Tree	generate-icmp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name

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Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router instance used for matching prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole prefix-list router-instance *string*
Tree	router-instance
Description	This command configures the router instance used for matching against the prefix list. If the conditional static route is configured in a VPRN and the router instance is configured as "Base", the activation of the static route is dependent on the existence of routes in the Base router and the evaluation of the prefix list and flag is done in that context. By default there is no configured value for this command option, and the conditional static route is dependent on the existence of routes in the same router instance as the static route itself, subject to the details of the prefix list and the flag setting. Entries in a referenced prefix list that are not match type 'exact' are interpreted as though they are 'exact'.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* blackhole tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

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community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* community *community*
Tree	community
String length	1 to 72
Max. instances	12
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp-next-hop [interface-name] *interface-name*

Synopsis	Enter the **dhcp-next-hop** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name*
Tree	dhcp-next-hop
Introduced	26.7.R1
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name.
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name*
Tree	dhcp-next-hop
String length	1 to 32
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation

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Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	26.7.R1
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	26.7.R1
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	26.7.R1
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* metric *number*

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Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	26.7.R1
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	26.7.R1
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* dhcp-next-hop *interface-name* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	26.7.R1
Platforms	SAR Gen 2

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grt

Synopsis	Enable the **grt** context
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* grt
Tree	grt
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* grt admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* grt description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* grt metric *number*
Tree	metric

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Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* grt preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

indirect [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **indirect** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	indirect
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Next-hop IP address used to reach the destination
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	indirect

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

cpe-check [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **cpe-check** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check

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Description	When configured, this command enables the Customer Premises Equipment (CPE) check feature and specifies the IP address of the target CPE device. This option initiates a background ICMP ping test to the configured target IP address. The IP address can either be an IPv4 address for IPv4 static routes or an IPv6 address for IPv6 static routes. To avoid possible circular references, the target IP address cannot exist in the same subnet as the static route subnet. This command is mutually exclusive with BFD support on a specific static route. **Note**: A node that is sourcing CPE-check packets waits an additional full interval before taking action, which gives the CPE time to respond. For example, with a drop-count of 3 and an interval of 1s, three CPE-check packets are sent out and the node waits for the duration of another interval before acting on the loss. Failure declaration may take extra time depending on the load, interval, and other factors. In line with multitasking, multi-priority operating principles of the node, and the relative priority of **cpe-ping**, the node paces these minor events.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the target CPE device
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Consecutive ping replies missed before CPE deemed down
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* drop-count *number*
Tree	drop-count
Range	1 to 255
Default	3
Introduced	25.3.R2

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Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between ICMP pings to target CPE IP address
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* interval *number*
Tree	interval
Range	1 to 255
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

log *boolean*

Synopsis	Log CPE connectivity checks transitions
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* log *boolean*
Tree	log
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

padding-size *number*

Synopsis	Padding size for CPE connectivity checks
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* padding-size *number*
Tree	padding-size
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255

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Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-instance *string*

Synopsis	Router instance used for matching prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* prefix-list router-instance *string*
Tree	router-instance
Description	This command configures the router instance used for matching against the prefix list. If the conditional static route is configured in a VPRN and the router instance is configured as "Base", the activation of the static route is dependent on the existence of routes in the Base router and the evaluation of the prefix list and flag is done in that context. By default there is no configured value for this command option, and the conditional static route is dependent on the existence of routes in the same router instance as the static route itself, subject to the details of the prefix list and the flag setting. Entries in a referenced prefix list that are not match type 'exact' are interpreted as though they are 'exact'.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* indirect *(ipv4-address-no-zone | ipv6-address-no-zone)* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

interface [interface-name] *interface-name*

Synopsis	Enter the **interface** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name*
Tree	interface

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**interface-name**] *interface-name*

Synopsis	Router interface name
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name*
Tree	interface
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2

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Platforms	SAR Gen 2

cpe-check [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **cpe-check** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Description	When configured, this command enables the Customer Premises Equipment (CPE) check feature and specifies the IP address of the target CPE device. This option initiates a background ICMP ping test to the configured target IP address. The IP address can either be an IPv4 address for IPv4 static routes or an IPv6 address for IPv6 static routes. To avoid possible circular references, the target IP address cannot exist in the same subnet as the static route subnet. This command is mutually exclusive with BFD support on a specific static route. **Note**: A node that is sourcing CPE-check packets waits an additional full interval before taking action, which gives the CPE time to respond. For example, with a drop-count of 3 and an interval of 1s, three CPE-check packets are sent out and the node waits for the duration of another interval before acting on the loss. Failure declaration may take extra time depending on the load, interval, and other factors. In line with multitasking, multi-priority operating principles of the node, and the relative priority of **cpe-ping**, the node paces these minor events.
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the target CPE device
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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drop-count *number*

Synopsis	Consecutive ping replies missed before CPE deemed down
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* drop-count *number*
Tree	drop-count
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between ICMP pings to target CPE IP address
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* interval *number*
Tree	interval
Range	1 to 255
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

log *boolean*

Synopsis	Log CPE connectivity checks transitions
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* log *boolean*
Tree	log
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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padding-size *number*

Synopsis	Padding size for CPE connectivity checks
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* padding-size *number*
Tree	padding-size
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing-weight *number*

Synopsis	Load-balancing weight for all of the ECMP next hops
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric

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Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list

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Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router instance used for matching prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* prefix-list router-instance *string*
Tree	router-instance
Description	This command configures the router instance used for matching against the prefix list. If the conditional static route is configured in a VPRN and the router instance is configured as "Base", the activation of the static route is dependent on the existence of routes in the Base router and the evaluation of the prefix list and flag is done in that context. By default there is no configured value for this command option, and the conditional static route is dependent on the existence of routes in the same router instance as the static route itself, subject to the details of the prefix list and the flag setting. Entries in a referenced prefix list that are not match type 'exact' are interpreted as though they are 'exact'.
Introduced	25.3.R2
Platforms	SAR Gen 2

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tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* interface *interface-name* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

ipsec-tunnel [ipsec-tunnel-name] *named-item*

Synopsis	Enter the **ipsec-tunnel** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item*
Tree	ipsec-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ipsec-tunnel-name**] *named-item*

Synopsis	IPsec tunnel name
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item*
Tree	ipsec-tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

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metric *number*

Synopsis	Static route metric
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* ipsec-tunnel *named-item* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295

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Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop [ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Enter the **next-hop** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Next-hop IP address used to reach the destination
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	next-hop
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the static route operation
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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bfd-liveness *boolean*

Synopsis	Use Bidirectional Forwarding Detection on this static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* bfd-liveness *boolean*
Tree	bfd-liveness
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

community *community*

Synopsis	Community ID associated with the static route
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* community *community*
Tree	community
Description	This command associates one BGP community (standard, extended, or large) with a next hop of the static route. This community can be matched in route policies and automatically added to BGP routes that are created from the static route. If at least one community is specified at the prefix level of the static route entry, this command is ignored.
String length	1 to 72
Introduced	25.3.R2
Platforms	SAR Gen 2

cpe-check [address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **cpe-check** list instance
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the target CPE device
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	cpe-check
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Consecutive ping replies missed before CPE deemed down
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* drop-count *number*
Tree	drop-count
Range	1 to 255
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Interval between ICMP pings to target CPE IP address
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* interval *number*
Tree	interval
Range	1 to 255
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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log *boolean*

Synopsis	Log CPE connectivity checks transitions
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* log *boolean*
Tree	log
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

padding-size *number*

Synopsis	Padding size for CPE connectivity checks
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* cpe-check *(ipv4-address-no-zone | ipv6-address-no-zone)* padding-size *number*
Tree	padding-size
Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description-allow-all-white-spaces*

Synopsis	Text description
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* description *description-allow-all-white-spaces*
Tree	description
String length	1 to 80
Introduced	25.3.R2
Platforms	SAR Gen 2

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load-balancing-weight *number*

Synopsis	Load-balancing weight for all of the ECMP next hops
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* load-balancing-weight *number*
Tree	load-balancing-weight
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

metric *number*

Synopsis	Static route metric
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* metric *number*
Tree	metric
Description	This command configures the cost metric for the static route, expressed as a decimal integer. If there are multiple static routes with the same preference but different metrics, the lower cost (metric) route is installed.
Range	0 to 65535
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

preference *number*

Synopsis	Priority of static route over different route sources
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* preference *number*
Tree	preference
Description	This command specifies the route preference to be assigned to the associated static route. The lower the preference value the more preferred the route is considered.
Range	1 to 255
Default	5

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Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-list

Synopsis	Enter the **prefix-list** context
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list
Tree	prefix-list
Introduced	25.3.R2
Platforms	SAR Gen 2

flag *keyword*

Synopsis	Static route match condition from prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list flag *keyword*
Tree	flag
Options	any, all, none
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

name *reference*

Synopsis	Prefix list name
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list name *reference*
Tree	name
Reference	**configure** policy-options prefix-list *named-item-64*
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-instance *string*

Synopsis	Router instance used for matching prefix list
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* prefix-list router-instance *string*
Tree	router-instance
Description	This command configures the router instance used for matching against the prefix list. If the conditional static route is configured in a VPRN and the router instance is configured as "Base", the activation of the static route is dependent on the existence of routes in the Base router and the evaluation of the prefix list and flag is done in that context. By default there is no configured value for this command option, and the conditional static route is dependent on the existence of routes in the same router instance as the static route itself, subject to the details of the prefix list and the flag setting. Entries in a referenced prefix list that are not match type 'exact' are interpreted as though they are 'exact'.
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* tag *number*
Tree	tag
Description	This command associates a 4-byte route-tag with the static route. The tag value can be used in route policies to control distribution of the static route into other protocols. If a tag is specified at the prefix level of the static route entry, this command is ignored.
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

validate-next-hop *boolean*

Synopsis	Track the state of the next hop in the IPv4 ARP Cache or the IPv6 Neighbor Cache
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)* validate-next-hop *boolean*
Tree	validate-next-hop

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tag *number*

Synopsis	Static route tag
Context	**configure** service vprn *service-name* static-routes route *(ipv4-prefix | ipv6-prefix)* route-type *keyword* tag *number*
Tree	tag
Range	1 to 4294967295
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-propagate

Synopsis	Enter the **ttl-propagate** context
Context	**configure** service vprn *service-name* ttl-propagate
Tree	ttl-propagate
Introduced	25.3.R2
Platforms	SAR Gen 2

local *keyword*

Synopsis	Local TTL propagation control for the VPRN
Context	**configure** service vprn *service-name* ttl-propagate local *keyword*
Tree	local
Description	This command specifies the local TTL propagation control for the VPRN and overrides the global configuration of the TTL propagation for locally generated packets that are forwarded over MPLS LSPs in a given VPRN service context.
Options	none, all, vc-only, use-base
Default	use-base
Introduced	25.3.R2
Platforms	SAR Gen 2

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transit *keyword*

Synopsis	Transit TTL propagation control for the VPRN
Context	**configure** service vprn *service-name* ttl-propagate transit *keyword*
Tree	transit
Description	This command overrides the global configuration of the TTL propagation for in transit packets that are forwarded over MPLS LSPs in a given VPRN service context.
Options	none, all, vc-only, use-base
Default	use-base
Introduced	25.3.R2
Platforms	SAR Gen 2

twamp-light

Synopsis	Enter the **twamp-light** context
Context	**configure** service vprn *service-name* twamp-light
Tree	twamp-light
Description	Commands in this context configure TWAMP Light parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

reflector

Synopsis	Enable the **reflector** context
Context	**configure** service vprn *service-name* twamp-light reflector
Tree	reflector
Description	Commands in this context configure TWAMP Light session reflector options and enable TWAMP Light functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the TWAMP Light reflector
Context	**configure** service vprn *service-name* twamp-light reflector admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ipv6-udp-checksum-zero *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Process IPv6 packets with a zero UDP checksum
Context	**configure** service vprn *service-name* twamp-light reflector allow-ipv6-udp-checksum-zero *boolean*
Tree	allow-ipv6-udp-checksum-zero
Description	When configured to **true**, the router processes IPv6 packets that arrive with a UDP checksum of zero. The destination UDP ports that are registered as TWAMP Test packets as part of this template allow this behavior. When configured to **false**, the router discards IPv6 packets that arrive with a UDP checksum of zero.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* twamp-light reflector description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **prefix** list instance
Context	**configure** service vprn *service-name* twamp-light reflector prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Description	Commands in this context configure which TWAMP Light packet prefixes the reflector processes.
Max. instances	50
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Source prefix for the TWAMP-Light reflector
Context	**configure** service vprn *service-name* twamp-light reflector prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** service vprn *service-name* twamp-light reflector prefix *(ipv4-prefix | ipv6-prefix)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

Synopsis	Processing behavior type for the reflector
Context	**configure** service vprn *service-name* twamp-light reflector type *keyword*
Tree	type
Description	This command configures the processing behavior of the TWAMP Light reflector. When the value is **twamp-light** the reflector does not check the received PDU as a traditional base TWAMP Light packet without TLV processing. When the value is **stamp**, the reflector attempts to find and process supported STAMP TLVs that follow the base STAMP packet. In mixed environments where different types of Session-Senders may be targeting a common TWAMP Light reflector, set the value to **stamp**. When the reflector is operating in **stamp** mode, the primary parsing is based on STAMP, checking and processing known TLVs, or determining if the arriving PDU is a TWAMP Light PDU. A Session-Sender launching a TWAMP Light-based packet must use all zeros padding pattern when the pad size is non zero.
Options	stamp – Reflector finds and processes supported STAMP TLVs twamp-light – Reflector does not check received PDU
Default	twamp-light
Introduced	25.3.R2
Platforms	SAR Gen 2

udp-port *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	UDP port on which the specified TWAMP-Light reflector listens for TWAMP PDUs
Context	**configure** service vprn *service-name* twamp-light reflector udp-port *number*
Tree	udp-port
Range	862 | 64364 to 64373
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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vprn-type *keyword*

WARNING:
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Synopsis	VPRN type
Context	**configure** service vprn *service-name* vprn-type *keyword*
Tree	vprn-type
Options	regular, hub, spoke, subscriber-split-horizon
Default	regular
Introduced	25.3.R2
Platforms	SAR Gen 2

weighted-ecmp *keyword*

Synopsis	Weighted load-balancing capability for ECMP routes
Context	**configure** service vprn *service-name* weighted-ecmp *keyword*
Tree	weighted-ecmp
Options	false, true, strict
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.28 subscriber-mgmt commands

```
configure
   – subscriber-mgmt
      – apply-groups reference
      – apply-groups-exclude reference
      – local-user-db named-item
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – description description
         – ipoe
            – host named-item
               – admin-state keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – authentication
               – host-identification
                  – circuit-id
                     – ascii-string string
                     – hex-string hex-string
                  – duid-en
                     – hex-string hex-string
                  – duid-ll-llt mac-unicast-address-no-zero
                  – mac mac-unicast-address-no-zero
                  – option60
                     – ascii-string named-item
                     – hex-string hex-string
                  – remote-id
                     – ascii-string string
                     – hex-string hex-string
                  – sap-id display-string
                  – service-id number
                  – string display-string
                  – system-id display-string
               – ipv4
                  – address
                     – gi-address keyword
                     – ip-address ipv4-unicast-address
                     – pool
                        – delimiter string
                        – primary named-item
                        – secondary named-item
                     – use-pool-from-client
                        – delimiter string
                  – gi-address ipv4-unicast-address
                  – option (number | keyword)
                     – apply-groups reference
                     – apply-groups-exclude reference
                     – ascii-string string-not-all-spaces
                     – duration number
                     – empty
                     – hex-string hex-string
                     – ipv4-address ipv4-address
                     – netbios-node-type keyword
            – mask type keyword
               – apply-groups reference
               – apply-groups-exclude reference
               – prefix
                  – length number
                  – string string
```


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configure subscriber-mgmt local-user-db ipoe mask suffix

```
            - suffix
               - length number
               - string string
         - match-list keyword
   - rip-policy named-item
      - apply-groups reference
      - apply-groups-exclude reference
      - authentication-key encrypted-leaf
      - authentication-type keyword
      - description description
```


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4.28.1 subscriber-mgmt command descriptions

subscriber-mgmt

Synopsis	Enter the **subscriber-mgmt** context
Context	**configure** subscriber-mgmt
Tree	subscriber-mgmt
Description	Commands in this context configure subscriber management attributes, policies, and profiles.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-user-db [name] *named-item*

Synopsis	Enter the **local-user-db** list instance
Context	**configure** subscriber-mgmt local-user-db *named-item*
Tree	local-user-db
Max. instances	127
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Local user database name
Context	**configure** subscriber-mgmt local-user-db *named-item*
Tree	local-user-db
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the local user database
Context	**configure** subscriber-mgmt local-user-db *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** subscriber-mgmt local-user-db *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ipoe

Synopsis	Enter the **ipoe** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe
Tree	ipoe
Introduced	25.3.R2
Platforms	SAR Gen 2

host [host-name] *named-item*

Synopsis	Enter the **host** list instance
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item*
Tree	host
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**host-name**] *named-item*

Synopsis	Host name
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item*
Tree	host
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the host
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication

Synopsis	Enter the **authentication** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* authentication
Tree	authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

host-identification

Synopsis	Enter the **host-identification** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification

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Tree	host-identification
Introduced	25.3.R2
Platforms	SAR Gen 2

circuit-id

Synopsis	Enter the **circuit-id** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification circuit-id
Tree	circuit-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Circuit ID as ASCII string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification circuit-id ascii-string *string*
Tree	ascii-string
String length	1 to 127
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Circuit ID as hexadecimal string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification circuit-id hex-string *hex-string*
Tree	hex-string

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String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

duid-en

Synopsis	Enter the **duid-en** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification duid-en
Tree	duid-en
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Client ID of type duid-en as a hexadecimal string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification duid-en hex-string *hex-string*
Tree	hex-string
Description	This command configures the hexadecimal value for use in matching against the concatenation of the enterprise number and identifier fields of the DHCPv6 option CLIENTID (1) with DUID type = 2 (assigned by the vendor based on the enterprise number) in the DHCPv6 client message.
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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duid-ll-llt *mac-unicast-address-no-zero*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MAC address of the Client ID type duid-ll or duid-llt
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification duid-ll-llt *mac-unicast-address-no-zero*
Tree	duid-ll-llt
Description	This command configures the value for use in matching against the link-layer address field of the DHCPv6 option CLIENTID (1) with DUID type = 3 (based on the link-layer address) or DUID type = 1 (based on the link-layer address plus time) and hardware type = 1 (Ethernet) in the DHCPv6 client message. For DUID type = 1, the time field is ignored.
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

mac *mac-unicast-address-no-zero*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	MAC address
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification mac *mac-unicast-address-no-zero*
Tree	mac
String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

option60

Synopsis	Enter the **option60** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification option60
Tree	option60

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Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Option 60 as ASCII string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification option60 ascii-string *named-item*
Tree	ascii-string
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Option as a hexadecimal string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification option60 hex-string *hex-string*
Tree	hex-string
String length	1 to 64
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote-id

Synopsis	Enter the **remote-id** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification remote-id
Tree	remote-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote ID as ASCII string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification remote-id ascii-string *string*
Tree	ascii-string
String length	1 to 255
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Remote ID as hexadecimal string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification remote-id hex-string *hex-string*
Tree	hex-string
String length	1 to 512
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a choice: **ascii-string** or **hex-string**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

sap-id *display-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	SAP ID
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification sap-id *display-string*
Tree	sap-id
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Service ID
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification service-id *number*
Tree	service-id
Range	1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381 | 2148278382 | 2148278383 to 2148278386 | 2148278387 to 2148282482
Introduced	25.3.R2
Platforms	SAR Gen 2

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string *display-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	VSO string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification string *display-string*
Tree	string
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

system-id *display-string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	System ID
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* host-identification system-id *display-string*
Tree	system-id
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enter the **ipv4** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

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address

Synopsis	Enter the **address** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address
Tree	address
Introduced	25.3.R2
Platforms	SAR Gen 2

gi-address *keyword*

Synopsis	Use gi-address to select a pool with the given scope
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address gi-address *keyword*
Tree	gi-address
Options	subnet-scope, pool-scope
Notes	The following elements are part of a choice: **gi-address**, **ip-address**, **pool**, or **use-pool-from-client**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-address *ipv4-unicast-address*

Synopsis	Fixed IPv4 address of the host
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address ip-address *ipv4-unicast-address*
Tree	ip-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **gi-address**, **ip-address**, **pool**, or **use-pool-from-client**.
Introduced	25.3.R2
Platforms	SAR Gen 2

pool

Synopsis	Enable the **pool** context

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Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address pool
Tree	pool
Notes	The following elements are part of a choice: **gi-address**, **ip-address**, **pool**, or **use-pool-from-client**.
Introduced	25.3.R2
Platforms	SAR Gen 2

delimiter *string*

Synopsis	Delimiter separating primary and secondary pool names
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address pool delimiter *string*
Tree	delimiter
String length	1
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *named-item*

Synopsis	Primary pool name
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address pool primary *named-item*
Tree	primary
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *named-item*

Synopsis	Secondary pool name
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address pool secondary *named-item*
Tree	secondary

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

use-pool-from-client

Synopsis	Enable the **use-pool-from-client** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address use-pool-from-client
Tree	use-pool-from-client
Notes	The following elements are part of a choice: **gi-address**, **ip-address**, **pool**, or **use-pool-from-client**.
Introduced	25.3.R2
Platforms	SAR Gen 2

delimiter *string*

Synopsis	Delimiter character to combine primary and secondary pool names
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 address use-pool-from-client delimiter *string*
Tree	delimiter
String length	1
Introduced	25.3.R2
Platforms	SAR Gen 2

gi-address *ipv4-unicast-address*

Synopsis	GI addresses based on the host entry in the LUDB
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 gi-address *ipv4-unicast-address*
Tree	gi-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

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option [number] *(number | keyword)*

Synopsis	Enter the **option** list instance
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)*
Tree	option
Introduced	25.3.R2
Platforms	SAR Gen 2

[**number**] *(number | keyword)*

Synopsis	DHCP option to send identification strings to client
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)*
Tree	option
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

ascii-string *string-not-all-spaces*

Synopsis	DHCP option specified as an ASCII string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)* ascii-string *string-not-all-spaces*
Tree	ascii-string
String length	1 to 127
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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duration *number*

Synopsis	DHCP option as time duration
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)* duration *number*
Tree	duration
Range	10 to 315446399
Units	seconds
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

empty

Synopsis	Remove DHCP option configuration
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)* empty
Tree	empty
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

hex-string *hex-string*

Synopsis	DHCP option specified as hexadecimal string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)* hex-string *hex-string*
Tree	hex-string
String length	1 to 256
String format	'hex-string' must be hexadecimal with prefix 0x (e.g. 0x1a2b)
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4-address *ipv4-address*

Synopsis	DHCP option as a list of IPv4 addresses
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)* ipv4-address *ipv4-address*
Tree	ipv4-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Max. instances	4
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**. This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

netbios-node-type *keyword*

Synopsis	DHCP option as NetBIOS node type
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe host *named-item* ipv4 option *(number | keyword)* netbios-node-type *keyword*
Tree	netbios-node-type
Options	b-node, p-node, m-node, h-node
Notes	The following elements are part of a mandatory choice: **ascii-string**, **duration**, **empty**, **hex-string**, **ipv4-address**, or **netbios-node-type**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask type *keyword*

Synopsis	Enter the **mask** list instance
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword*
Tree	mask
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

Synopsis	Matching type to identify a host
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword*
Tree	mask
Description	This command configures the data type that represents the type of matching performed to identify a DHCP host.
Options	circuit-id, remote-id, sap-id, string, system-id, option60, duid-en, duid-ll-llt
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix

Synopsis	Enable the **prefix** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword* prefix
Tree	prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

length *number*

Synopsis	PPP mask prefix length
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword* prefix length *number*
Tree	length
Range	1 to 127
Notes	The following elements are part of a mandatory choice: **length** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	Prefix string
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword* prefix string *string*

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Tree	string
String length	1 to 127
Notes	The following elements are part of a mandatory choice: **length** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

suffix

Synopsis	Enable the **suffix** context
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword* suffix
Tree	suffix
Introduced	25.3.R2
Platforms	SAR Gen 2

length *number*

Synopsis	PPP mask suffix length
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword* suffix length *number*
Tree	length
Range	1 to 127
Notes	The following elements are part of a mandatory choice: **length** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

string *string*

Synopsis	Suffix substring
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe mask type *keyword* suffix string *string*
Tree	string
Description	This command specifies a substring that is stripped off the end of the incoming circuit ID before it is matched against the value configured in the circuit ID.
String length	1 to 127
String format	'string' must not start with * (suffix length 1..127)

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Notes	The following elements are part of a mandatory choice: **length** or **string**.
Introduced	25.3.R2
Platforms	SAR Gen 2

match-list *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	IPoE host match type
Context	**configure** subscriber-mgmt local-user-db *named-item* ipoe match-list *keyword*
Tree	match-list
Description	This command specifies the type of matching done to identify a host. There are different match-types for IPoE hosts.
Options	circuit-id, mac, remote-id, sap-id, service-id, string, system-id, option60, encap-tag-range, dual-stack-remote-id, derived-id, ip, encap-tag-separate-range, duid-en, duid-ll-llt
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

rip-policy [name] *named-item*

Synopsis	Enter the **rip-policy** list instance
Context	**configure** subscriber-mgmt rip-policy *named-item*
Tree	rip-policy
Max. instances	255
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	RIP policy name

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Context	**configure** subscriber-mgmt rip-policy *named-item*
Tree	rip-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

Synopsis	Authentication key
Context	**configure** subscriber-mgmt rip-policy *named-item* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command specifies the authentication key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 102
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-type *keyword*

Synopsis	Authentication type used between RIP neighbors
Context	**configure** subscriber-mgmt rip-policy *named-item* authentication-type *keyword*
Tree	authentication-type
Options	password, message-digest, message-digest-20
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** subscriber-mgmt rip-policy *named-item* description *description*
Tree	description

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String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.29 system commands

```
configure
   - system
      - alarm-contact-input number
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - clear-message description
         - description long-description
         - normal-state keyword
         - trigger-message description
      - alarms
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - max-cleared number
      - allow-boot-license-violations boolean
      - apply-groups reference
      - apply-groups-exclude reference
      - boot-bad-exec url
      - boot-good-exec url
      - central-frequency-clock
         - apply-groups reference
         - apply-groups-exclude reference
         - gnss
            - admin-state keyword
            - ql-override keyword
         - ptp
            - admin-state keyword
            - ql-override keyword
         - ql-minimum keyword
         - ql-selection boolean
         - ref-order
            - first keyword
            - fourth keyword
            - second keyword
            - third keyword
         - ref1
            - admin-state keyword
            - ql-override keyword
            - source-port port
         - ref2
            - admin-state keyword
            - ql-override keyword
            - source-port port
         - revert boolean
         - wait-to-restore number
      - clli-code clli-description
      - congestion-management boolean
      - contact description
      - coordinates description
      - cron
         - apply-groups reference
         - apply-groups-exclude reference
         - schedule named-item owner named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - count number
            - day-of-month number
```


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configure system cron schedule description

```
            - description description
            - end-time
               - date-and-time date-and-time
               - day keyword
               - time hours-minutes-twenty-four
            - hour number
            - interval number
            - minute number
            - month (keyword | number)
            - script-policy
               - name named-item
               - owner named-item
            - type keyword
            - weekday (keyword | number)
      - dhcp6
         - adv-noaddrs-global keyword
         - apply-groups reference
         - apply-groups-exclude reference
      - dns
         - address-pref keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - dnssec
            - ad-validation keyword
      - eth-cfm
         - apply-groups reference
         - apply-groups-exclude reference
         - md-auto-id
            - ma-index-range
               - apply-groups reference
               - apply-groups-exclude reference
               - end number
               - start number
            - md-index-range
               - apply-groups reference
               - apply-groups-exclude reference
               - end number
               - start number
         - named-display boolean
         - redundancy
            - apply-groups reference
            - apply-groups-exclude reference
            - mc-lag
               - propagate-hold-time (number | keyword)
               - standby-mep boolean
         - slm
            - apply-groups reference
            - apply-groups-exclude reference
            - inactivity-timer number
      - grpc
         - admin-state keyword
         - allow-unsecure-connection
         - apply-groups reference
         - apply-groups-exclude reference
         - custom-proto named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - python-script reference
            - urls cflash-url
         - delay-on-boot number
         - gnmi
            - admin-state keyword
```


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configure system grpc gnmi auto-config-save

```
            - auto-config-save boolean
            - proto-version keyword
         - gnoi
            - cert-mgmt
               - admin-state keyword
            - file
               - admin-state keyword
            - system
               - admin-state keyword
         - listening-port number
         - max-msg-size number
         - tcp-keepalive
            - admin-state keyword
            - idle-time number
            - interval number
            - retries number
         - tls-server-profile reference
      - grpc-tunnel
         - apply-groups reference
         - apply-groups-exclude reference
         - delay-on-boot number
         - destination-group named-item
            - allow-unsecure-connection
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - destination (ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-
domain-name) port number
               - apply-groups reference
               - apply-groups-exclude reference
               - local-source-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - originated-qos-marking keyword
               - router-instance string
            - tcp-keepalive
               - admin-state keyword
               - idle-time number
               - interval number
               - retries number
            - tls-client-profile reference
         - tunnel named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - destination-group reference
            - handler named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - port number
               - target-type
                  - custom-type string
                  - grpc-server
                  - ssh-server
            - target-name
               - custom-string named-item-64
               - node-name
               - user-agent
      - icmp-vse boolean
      - ip
         - apply-groups reference
         - apply-groups-exclude reference
         - buffer-unresolved-packets boolean
         - enforce-unique-if-index boolean
```


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```
        - forward-6in4 boolean
        - forward-ip-over-gre boolean
        - ipv6-eh keyword
    - lacp
        - apply-groups reference
        - apply-groups-exclude reference
        - system-priority number
    - lldp
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - message-fast-tx number
        - message-fast-tx-init number
        - notification-interval number
        - reinit-delay number
        - tx-credit-max number
        - tx-hold-multiplier number
        - tx-interval number
    - load-balancing
        - apply-groups reference
        - apply-groups-exclude reference
        - l4-load-balancing boolean
        - lsr-load-balancing keyword
        - service-id-lag-hashing boolean
    - location description
    - login-control
        - apply-groups reference
        - apply-groups-exclude reference
        - exponential-backoff boolean
        - ftp
            - inbound-max-sessions number
        - idle-timeout (keyword | number)
        - login-banner boolean
        - login-scripts
            - global-script string-not-all-spaces
            - per-user-script
                - file-name filename
                - user-directory string-not-all-spaces
        - motd
            - text string-not-all-spaces
            - url string-not-all-spaces
        - pre-login-message
            - message string-not-all-spaces
            - name boolean
        - ssh
            - graceful-shutdown boolean
            - inbound-max-sessions number
            - max-channels-per-connection number
            - outbound-max-sessions number
            - ttl-security number
        - telnet
            - graceful-shutdown boolean
            - inbound-max-sessions number
            - outbound-max-sessions number
            - ttl-security number
    - management-interface
        - apply-groups reference
        - apply-groups-exclude reference
        - cli
            - apply-groups reference
            - apply-groups-exclude reference
            - classic-cli
                - allow-immediate boolean
                - rollback
```


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configure system management-interface cli classic-cli rollback apply-groups

```
                - apply-groups reference
                - apply-groups-exclude reference
                - local-checkpoints number
                - location url
                - remote-checkpoints number
                - rescue
                   - location url
             - cli-engine keyword
             - md-cli
                - apply-groups reference
                - apply-groups-exclude reference
                - auto-config-save boolean
                - environment
                   - command-alias
                      - alias string
                         - admin-state keyword
                         - apply-groups reference
                         - apply-groups-exclude reference
                         - cli-command string
                         - description string-not-all-spaces
                         - mount-point (keyword | string)
                         - python-script reference
                   - command-completion
                      - enter boolean
                      - space boolean
                      - tab boolean
                   - commit-options
                      - comment boolean
                      - confirm boolean
                   - console
                      - length number
                      - width number
                   - history
                      - recall boolean
                      - size number
                   - info-output
                      - always-display
                         - admin-state boolean
                   - match-highlight
                      - admin-state keyword
                      - style keyword
                   - message-severity-level
                      - cli keyword
                   - more boolean
                   - progress-indicator
                      - admin-state keyword
                      - delay number
                      - type keyword
                   - prompt
                      - context boolean
                      - newline boolean
                      - timestamp boolean
                      - uncommitted-changes-indicator boolean
                   - python
                      - memory-reservation number
                      - minimum-available-memory number
                      - timeout number
                   - time-display keyword
                   - time-format keyword
          - commit-history number
          - commit-management
             - apply-groups reference
             - apply-groups-exclude reference
             - python-scripts
```


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configure system management-interface commit-management python-scripts apply-groups

```
            - apply-groups reference
            - apply-groups-exclude reference
            - gnmi-trigger boolean
            - md-cli-trigger boolean
            - netconf-trigger boolean
            - post-commit-python-script reference
            - pre-commit-python-script reference
      - configuration-mode keyword
      - configuration-save
         - apply-groups reference
         - apply-groups-exclude reference
         - configuration-backups number
         - incremental-saves boolean
      - netconf
         - apply-groups reference
         - apply-groups-exclude reference
         - auto-config-save boolean
         - call-home
            - device-labels
               - advertise-operating-system boolean
               - advertise-software-version boolean
               - advertise-system-name boolean
               - apply-groups reference
               - apply-groups-exclude reference
               - device-label string
            - netconf-client named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - connection-type keyword
               - delay-on-boot number
               - description description
               - idle-timeout number
               - remote-address (ipv4-address-no-zone | ipv6-address-no-zone)
               - remote-port number
               - router-instance string
               - tls-server-profile reference
               - transport keyword
         - capabilities
            - candidate boolean
         - listen
            - admin-state keyword
            - delay-on-boot number
            - idle-timeout number
            - port number
            - tls-server-profile reference
            - transport keyword
         - tls-client-identity
            - client number
               - apply-groups reference
               - apply-groups-exclude reference
               - fingerprint key-fingerprint-sha256
               - map-type keyword
               - user-name reference
            - default-client
               - apply-groups reference
               - apply-groups-exclude reference
               - user-name reference
      - operations
         - apply-groups reference
         - apply-groups-exclude reference
         - global-timeouts
            - asynchronous-execution (number | keyword)
            - asynchronous-retention (number | keyword)
```


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configure system management-interface operations global-timeouts synchronous-execution

```
            - synchronous-execution (number | keyword)
      - schema-path url
      - snmp
         - admin-state keyword
         - apply-groups reference
         - apply-groups-exclude reference
         - engine-id engine-id-as-string
         - general-port number
         - max-bulk-duration number
         - packet-size number
         - streaming
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
         - transport keyword
      - yang-modules
         - apply-groups reference
         - apply-groups-exclude reference
         - nmda
            - nmda-support boolean
         - nokia-combined-modules boolean
         - nokia-submodules boolean
   - name named-item-64
   - network-element-discovery
      - apply-groups reference
      - apply-groups-exclude reference
      - generate-traps boolean
      - profile named-item
         - apply-groups reference
         - apply-groups-exclude reference
         - neid string
         - neip
            - apply-groups reference
            - apply-groups-exclude reference
            - auto-generate
               - ipv4
                  - vendor-id-value number
               - ipv6
                  - vendor-id-value number
            - ipv4 ipv4-unicast-address
            - ipv6 ipv6-address
         - platform-type named-item-255
         - system-mac mac-unicast-address-no-zero
         - vendor-id named-item-255
   - ospf-dynamic-hostnames boolean
   - persistence
      - ancp
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - location keyword
      - apply-groups reference
      - apply-groups-exclude reference
      - dhcp-server
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - location keyword
      - nat-port-forwarding
         - apply-groups reference
         - apply-groups-exclude reference
         - description description
         - location keyword
   - ptp
```


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```
        - admin-state keyword
        - alternate-profile named-item-64
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - domain number
          - log-announce-interval number
          - profile keyword
        - announce-receipt-timeout number
        - apply-groups reference
        - apply-groups-exclude reference
        - clock-type keyword
        - domain number
        - initial-time-inaccuracy number
        - local-priority number
        - log-announce-interval number
        - max-steps-removed number
        - network-type keyword
        - port reference
          - address mac-address
          - admin-state keyword
          - alternate-profile reference
          - apply-groups reference
          - apply-groups-exclude reference
          - local-priority number
          - log-delay-interval number
          - log-sync-interval number
          - master-only boolean
          - monitor-receiver boolean
          - monitor-sender boolean
          - not-master boolean
        - priority1 number
        - priority2 number
        - profile keyword
        - ptsf
          - monitor-ptsf-unusable
            - admin-state keyword
        - router string
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
          - peer (ipv4-address-no-zone | ipv6-address-no-zone)
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - local-priority number
            - log-sync-interval number
            - monitor-receiver boolean
            - not-master boolean
          - peer-limit number
        - time-inaccuracy number
        - tx-path-trace boolean
        - tx-while-sync-uncertain boolean
        - within-holdover-spec-timer number
    - script-control
      - apply-groups reference
      - apply-groups-exclude reference
      - script named-item owner named-item
        - admin-state keyword
        - apply-groups reference
        - apply-groups-exclude reference
        - description description
        - location string-not-all-spaces
      - script-policy named-item owner named-item
```


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```
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - expire-time (number | keyword)
            - lifetime (number | keyword)
            - lock-override boolean
            - max-completed number
            - python-lifetime number
            - python-script
               - name reference
            - results string-not-all-spaces
            - script
               - name named-item
               - owner named-item
      - security
         - aaa
            - apply-groups reference
            - apply-groups-exclude reference
            - cli-session-group named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - combined-max-sessions number
               - description description
               - ssh-max-sessions number
               - telnet-max-sessions number
            - health-check (number | keyword)
            - local-profiles
               - apply-groups reference
               - apply-groups-exclude reference
               - profile named-item
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - cli-session-group reference
                  - combined-max-sessions number
                  - default-action keyword
                  - entry number
                     - action keyword
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - description description
                     - match display-string
                  - grpc
                     - custom-proto keyword
                     - rpc-authorization
                        - gnmi-capabilities keyword
                        - gnmi-get keyword
                        - gnmi-set keyword
                        - gnmi-subscribe keyword
                        - gnoi-cert-mgmt-cangenerate keyword
                        - gnoi-cert-mgmt-getcert keyword
                        - gnoi-cert-mgmt-install keyword
                        - gnoi-cert-mgmt-revoke keyword
                        - gnoi-cert-mgmt-rotate keyword
                        - gnoi-file-get keyword
                        - gnoi-file-put keyword
                        - gnoi-file-remove keyword
                        - gnoi-file-stat keyword
                        - gnoi-file-transfertoremote keyword
                        - gnoi-system-cancelreboot keyword
                        - gnoi-system-ping keyword
                        - gnoi-system-reboot keyword
                        - gnoi-system-rebootstatus keyword
                        - gnoi-system-setpackage keyword
                        - gnoi-system-switchcontrolprocessor keyword
```


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configure system security aaa local-profiles profile grpc rpc-authorization gnoi-system-time

```
                  - gnoi-system-time keyword
                  - gnoi-system-traceroute keyword
            - netconf
               - base-op-authorization
                  - action boolean
                  - cancel-commit boolean
                  - close-session boolean
                  - commit boolean
                  - copy-config boolean
                  - create-subscription boolean
                  - delete-config boolean
                  - discard-changes boolean
                  - edit-config boolean
                  - get boolean
                  - get-config boolean
                  - get-data boolean
                  - get-schema boolean
                  - kill-session boolean
                  - lock boolean
                  - validate boolean
               - ssh-max-sessions number
               - telnet-max-sessions number
         - management-interface
            - apply-groups reference
            - apply-groups-exclude reference
            - grpc
               - tls-authentication
                  - admin-state keyword
                  - default-user reference
            - md-cli
               - command-accounting-during-load boolean
            - output-authorization
               - md-interfaces boolean
               - telemetry-data boolean
               - telemetry-default-user reference
         - remote-servers
            - apply-groups reference
            - apply-groups-exclude reference
            - ldap
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - public-key-authentication boolean
               - route-preference keyword
               - server number
                  - address (ipv4-address-no-zone | ipv6-address-no-zone)
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - port number
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - bind-authentication
                     - password encrypted-leaf
                     - root-dn string-not-all-spaces
                  - search
                     - base-dn string-not-all-spaces
                  - server-name named-item
                  - tls-profile reference
               - server-retry number
               - server-timeout number
               - use-default-template boolean
            - radius
               - access-algorithm keyword
```


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```
                - accounting boolean
                - accounting-port number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - authorization boolean
                - interactive-authentication boolean
                - port number
                - route-preference keyword
                - server number
                   - address (ipv4-address-no-zone | ipv6-address-no-zone)
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - authenticator keyword
                   - secret encrypted-leaf
                   - tls-client-profile reference
                - server-retry number
                - server-timeout number
                - use-default-template boolean
             - tacplus
                - accounting
                   - record-type keyword
                - admin-control
                   - tacplus-map-to-priv-lvl number
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - authorization
                   - request-format
                      - access-operation-cmd keyword
                   - use-priv-lvl boolean
                - ignore-unknown-mandatory-vsas boolean
                - interactive-authentication boolean
                - priv-lvl-map
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - priv-lvl number
                      - apply-groups reference
                      - apply-groups-exclude reference
                      - user-profile-name reference
                - route-preference keyword
                - server number
                   - address (ipv4-address-no-zone | ipv6-address-no-zone)
                   - apply-groups reference
                   - apply-groups-exclude reference
                   - port number
                   - secret encrypted-leaf
                - server-retry-timeout (number | keyword)
                - server-timeout number
                - service-request
                   - nokia-grpc-rpc-authorization boolean
                   - nokia-netconf-base-op-authorization boolean
                   - nokia-user boolean
                   - nokia-user-profile boolean
                - use-default-template boolean
             - vprn-server
                - apply-groups reference
                - apply-groups-exclude reference
                - inband reference
                - outband reference
                - vprn reference
          - user-template keyword
             - access
                - console boolean
```


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configure system security aaa user-template access console-port-cli

```
                - console-port-cli boolean
                - ftp boolean
                - grpc boolean
                - netconf boolean
                - scp-sftp boolean
                - ssh-cli boolean
                - telnet-cli boolean
             - apply-groups reference
             - apply-groups-exclude reference
             - console
                - login-exec string-not-all-spaces
             - home-directory cflash-without-slot-url
             - profile named-item
             - restricted-to-home boolean
             - save-when-restricted boolean
       - apply-groups reference
       - apply-groups-exclude reference
       - cli-script
          - apply-groups reference
          - apply-groups-exclude reference
          - authorization
             - cron
                - cli-user reference
             - event-handler
                - cli-user reference
       - console-login boolean
       - dist-cpu-protection
          - apply-groups reference
          - apply-groups-exclude reference
          - policy named-item
             - apply-groups reference
             - apply-groups-exclude reference
             - description description
             - local-monitoring-policer named-item
                - apply-groups reference
                - apply-groups-exclude reference
                - description description
                - exceed-action keyword
                - log-events keyword
                - rate
                   - kbps
                      - limit (keyword | number)
                      - mbs number
                   - packets
                      - initial-delay number
                      - limit (keyword | number)
                      - within number
             - protocol keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - dynamic-parameters
                   - detection-time number
                   - exceed-action
                      - action keyword
                      - hold-down (keyword | number)
                   - log-events keyword
                   - rate
                      - kbps
                         - limit (keyword | number)
                         - mbs number
                      - packets
                         - initial-delay number
                         - limit (keyword | number)
                         - within number
```


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```
                - enforcement
                  - dynamic
                    - mon-policer-name reference
                  - dynamic-local-mon-bypass
                  - static
                    - policer-name reference
               - static-policer named-item
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - detection-time number
                  - exceed-action
                    - action keyword
                    - hold-down (keyword | number)
                  - log-events keyword
                  - rate
                    - kbps
                      - limit (keyword | number)
                      - mbs number
                    - packets
                      - initial-delay number
                      - limit (keyword | number)
                      - within number
               - type keyword
         - dot1x
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - radius-policy named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - retry number
               - server number
                  - accounting-port number
                  - address ipv4-unicast-address
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication-port number
                  - secret encrypted-leaf
                  - type keyword
               - source-address ipv4-unicast-address
               - timeout number
         - ftp-server boolean
         - hash-control
            - apply-groups reference
            - apply-groups-exclude reference
            - management-interface
               - classic-cli
                  - read-algorithm keyword
                  - write-algorithm keyword
               - grpc
                  - hash-algorithm keyword
               - md-cli
                  - hash-algorithm keyword
               - netconf
                  - hash-algorithm keyword
         - keychains
            - keychain named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - bidirectional
                  - entry number
```


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configure system security keychains keychain bidirectional entry admin-state

```
                  - admin-state keyword
                  - algorithm keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication-key encrypted-leaf
                  - begin-time date-and-time
                  - option keyword
                  - tolerance (number | keyword)
            - description description
            - macsec
               - entry number
                  - admin-state keyword
                  - algorithm keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - begin-time date-and-time
                  - cak encrypted-leaf-hex-without-prefix
                  - cak-name cak-name
                  - tolerance (number | keyword)
            - receive
               - entry number
                  - admin-state keyword
                  - algorithm keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication-key encrypted-leaf
                  - begin-time date-and-time
                  - end-time date-and-time
                  - tolerance (number | keyword)
            - send
               - entry number
                  - admin-state keyword
                  - algorithm keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - authentication-key encrypted-leaf
                  - begin-time date-and-time
            - tcp-option-number
               - receive keyword
               - send keyword
      - management
         - allow-ftp boolean
         - allow-grpc boolean
         - allow-netconf boolean
         - allow-ssh boolean
         - allow-telnet boolean
         - allow-telnet6 boolean
         - apply-groups reference
         - apply-groups-exclude reference
      - management-access-filter
         - apply-groups reference
         - apply-groups-exclude reference
         - ip-filter
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - default-action keyword
            - entry number
               - action keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - log-events boolean
               - match
```


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```
                  - dst-port
                     - mask number
                     - port number
                  - mgmt-port
                     - cpm
                     - lag lag-interface
                     - port-id port
                  - protocol (number | keyword)
                  - router-instance string
                  - src-ip
                     - address (ipv4-prefix | ipv4-address)
                     - ip-prefix-list reference
                     - mask ipv4-address
                  - src-port
                     - mask number
                     - port number
            - ipv6-filter
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - default-action keyword
               - entry number
                  - action keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - log-events boolean
                  - match
                     - dst-port
                        - mask number
                        - port number
                     - flow-label number
                     - mgmt-port
                        - cpm
                        - lag lag-interface
                        - port-id port
                     - next-header (number | keyword)
                     - router-instance string
                     - src-ip
                        - address (ipv6-prefix | ipv6-address)
                        - ipv6-prefix-list reference
                        - mask ipv6-address
                     - src-port
                        - mask number
                        - port number
            - mac-filter
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - default-action keyword
               - entry number
                  - action keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - log-events boolean
                  - match
                     - cfm-opcode
                        - eq number
                        - gt number
                        - lt number
                        - range
                           - end number
                           - start number
```


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configure system security management-access-filter mac-filter entry match dot1p

```
                  - dot1p
                     - mask number
                     - priority number
                  - dst-mac
                     - address mac-address
                     - mask mac-address
                  - etype etype-value
                  - frame-type keyword
                  - llc-dsap
                     - dsap number
                     - mask number
                  - llc-ssap
                     - mask number
                     - ssap number
                  - service service-name
                  - snap-oui keyword
                  - snap-pid number
                  - src-mac
                     - address mac-address
                     - mask mac-address
      - pki
         - apply-groups reference
         - apply-groups-exclude reference
         - ca-profile named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - auto-crl-update
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - crl-urls
                  - url-entry number
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - transmission-profile reference
                     - url http-url-path-loose
               - periodic-update-interval number
               - pre-update-time number
               - retry-interval number
               - schedule-type keyword
            - cert-file pki-file-name
            - cmpv2
               - accept-unprotected-message
                  - error-message boolean
                  - pkiconf-message boolean
               - always-set-sender-for-ir boolean
               - http
                  - response-timeout number
                  - version keyword
               - key-list
                  - key display-string
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - password encrypted-leaf
               - recipient-subject string
               - response-signing-cert pki-file-name
               - response-signing-use-extracert
               - same-recipient-nonce-for-poll-request boolean
               - signing-cert-subject string
               - url
                  - service-name service-name
                  - transmission-profile reference
                  - url-string http-optional-url-loose
```


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configure system security pki ca-profile cmpv2 use-ca-subject

```
                  - use-ca-subject
               - crl-file pki-file-name
               - description description
               - ocsp
                  - responder-url http-optional-url-loose
                  - service-name service-name
                  - transmission-profile reference
               - revocation-check keyword
            - certificate-auto-update pki-file-name
               - apply-groups reference
               - apply-groups-exclude reference
               - key-file-name pki-file-name
               - profile reference
            - certificate-display-format keyword
            - certificate-expiration-warning
               - hours number
               - repeat-hours number
            - certificate-update-profile named-item
               - after-issue number
               - apply-groups reference
               - apply-groups-exclude reference
               - before-expiry number
               - cmpv2
                  - ca-profile reference
               - dsa
                  - key-size number
               - ecdsa
                  - curve keyword
               - est
                  - est-profile reference
               - hash-algorithm keyword
               - retry-interval number
               - rsa
                  - key-size number
               - same-as-existing-key
            - common-name-list named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - common-name number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - cn-type keyword
                  - cn-value regular-expression-not-all-spaces
            - crl-expiration-warning
               - hours number
               - repeat-hours number
            - dynamic-ca boolean
            - est-profile named-item
               - apply-groups reference
               - apply-groups-exclude reference
               - check-id-kp-cmcra-only boolean
               - client-tls-profile named-item
               - http-authentication
                  - password encrypted-leaf
                  - username string
               - server
                  - fqdn fully-qualified-domain-name
                  - ipv4 ipv4-unicast-address
                  - ipv6 (ipv4-address-no-zone | ipv6-address-no-zone)
                  - path
                     - cacerts string
                     - simpleenroll string
                     - simplereenroll string
                  - port number
```


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configure system security pki est-profile transmission-profile

```
                - transmission-profile named-item
             - imported-format keyword
             - maximum-cert-chain-depth number
          - python-script
             - apply-groups reference
             - apply-groups-exclude reference
             - authorization
                - cron
                   - cli-user reference
                - event-handler
                   - cli-user reference
                - subscriber-mgmt
                   - cli-user reference
          - snmp
             - access named-item context named-item-or-empty security-model keyword security-
level keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - notify named-item
                - prefix-match keyword
                - read named-item
                - write named-item
             - apply-groups reference
             - apply-groups-exclude reference
             - attempts
                - apply-groups reference
                - apply-groups-exclude reference
                - count number
                - lockout number
                - time number
             - community encrypted-leaf
                - access-permissions keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - source-access-list reference
                - version keyword
             - source-access-list string-not-all-spaces
                - apply-groups reference
                - apply-groups-exclude reference
                - source-host named-item
                   - address (ipv4-address-no-zone | ipv6-address-no-zone)
                   - apply-groups reference
                   - apply-groups-exclude reference
             - usm-community encrypted-leaf
                - apply-groups reference
                - apply-groups-exclude reference
                - group named-item
                - source-access-list reference
             - view named-item subtree string
                - apply-groups reference
                - apply-groups-exclude reference
                - mask string
                - type keyword
          - source-address
             - ipv4 keyword
                - address ipv4-address
                - apply-groups reference
                - apply-groups-exclude reference
                - interface-name interface-name
             - ipv6 keyword
                - address ipv6-address
                - apply-groups reference
                - apply-groups-exclude reference
          - ssh
```


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```
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication-method
               - client
                  - public-key-only boolean
               - server
                  - public-key-only boolean
            - client-cipher-list-v2
               - apply-groups reference
               - apply-groups-exclude reference
               - cipher number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - name keyword
            - client-host-key-list-v2
               - host-key number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - name keyword
            - client-kex-list-v2
               - kex number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - name keyword
            - client-known-hosts
               - host-key number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - description description
                  - host-name (ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-
domain-name)
                  - key-value string-not-all-spaces
            - client-mac-list-v2
               - mac number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - name keyword
            - key-re-exchange
               - client
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mbytes (number | keyword)
                  - minutes (number | keyword)
               - server
                  - admin-state keyword
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - mbytes (number | keyword)
                  - minutes (number | keyword)
            - listening-port number
            - permit-empty-passwords boolean
            - preserve-key boolean
            - server-admin-state keyword
            - server-cipher-list-v2
               - apply-groups reference
               - apply-groups-exclude reference
               - cipher number
                  - apply-groups reference
                  - apply-groups-exclude reference
                  - name keyword
            - server-host-key-list-v2
               - host-key number
                  - apply-groups reference
```


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configure system security ssh server-host-key-list-v2 host-key apply-groups-exclude

```
                - apply-groups-exclude reference
                - name keyword
            - server-kex-list-v2
                - kex number
                - apply-groups reference
                - apply-groups-exclude reference
                - name keyword
            - server-mac-list-v2
                - mac number
                - apply-groups reference
                - apply-groups-exclude reference
                - name keyword
        - system-passwords
            - admin-password hashed-leaf
            - apply-groups reference
            - apply-groups-exclude reference
        - tech-support
            - apply-groups reference
            - apply-groups-exclude reference
            - ts-location (ts-sat-url | cflash-url | string)
        - telnet
            - apply-groups reference
            - apply-groups-exclude reference
            - listening-port number
        - telnet-server boolean
        - telnet6-server boolean
        - tls
            - apply-groups reference
            - apply-groups-exclude reference
            - cert-profile named-item
                - admin-state keyword
                - apply-groups reference
                - apply-groups-exclude reference
                - entry number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - certificate-file string-not-all-spaces
                    - key-file string-not-all-spaces
                    - send-chain
                        - ca-profile reference
            - client-cipher-list named-item
                - apply-groups reference
                - apply-groups-exclude reference
                - tls12-cipher number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - name keyword
                - tls13-cipher number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - name keyword
            - client-group-list named-item
                - apply-groups reference
                - apply-groups-exclude reference
                - tls13-group number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - name keyword
            - client-signature-list named-item
                - apply-groups reference
                - apply-groups-exclude reference
                - tls13-signature number
                    - apply-groups reference
                    - apply-groups-exclude reference
```


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configure system security tls client-signature-list tls13-signature name

```
            - name keyword
         - client-tls-profile named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - cert-profile reference
            - cipher-list reference
            - group-list reference
            - protocol-version keyword
            - signature-list reference
            - status-verify
               - default-result keyword
               - ee-revocation
                  - primary keyword
                  - secondary keyword
            - trust-anchor-profile reference
         - server-cipher-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - tls12-cipher number
               - apply-groups reference
               - apply-groups-exclude reference
               - name keyword
            - tls13-cipher number
               - apply-groups reference
               - apply-groups-exclude reference
               - name keyword
         - server-group-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - tls13-group number
               - apply-groups reference
               - apply-groups-exclude reference
               - name keyword
         - server-signature-list named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - tls13-signature number
               - apply-groups reference
               - apply-groups-exclude reference
               - name keyword
         - server-tls-profile named-item
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - authenticate-client
               - common-name-list reference
               - trust-anchor-profile reference
            - cert-profile reference
            - cipher-list reference
            - group-list reference
            - protocol-version keyword
            - signature-list reference
            - status-verify
               - default-result keyword
               - ee-revocation
                  - primary keyword
                  - secondary keyword
            - tls-re-negotiate-timer number
         - trust-anchor-profile named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - trust-anchor reference
         - use-pqc-only boolean
```


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configure system security user-params

```
        - user-params
            - apply-groups reference
            - apply-groups-exclude reference
            - attempts
                - count number
                - lockout number
                - time number
            - authentication-order
                - exit-on-reject boolean
                - order keyword
            - local-user
                - password
                    - aging number
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - complexity-rules
                        - allow-user-name boolean
                        - credits
                            - lowercase number
                            - numeric number
                            - special-character number
                            - uppercase number
                        - disallow-sequence-keys number
                        - minimum-classes number
                        - minimum-length number
                        - repeated-characters number
                        - required
                            - lowercase number
                            - numeric number
                            - special-character number
                            - uppercase number
                    - hashing keyword
                    - history-size number
                    - minimum-age number
                    - minimum-change number
                - user named-item
                    - access
                        - console boolean
                        - console-port-cli boolean
                        - ftp boolean
                        - grpc boolean
                        - netconf boolean
                        - scp-sftp boolean
                        - snmp boolean
                        - ssh-cli boolean
                        - telnet-cli boolean
                    - apply-groups reference
                    - apply-groups-exclude reference
                    - cli-engine keyword
                    - console
                        - cannot-change-password boolean
                        - login-exec string-not-all-spaces
                        - member reference
                        - new-password-at-login boolean
                    - home-directory cflash-without-slot-url
                    - password hashed-leaf
                    - public-keys
                        - ecdsa
                            - ecdsa-key number
                                - apply-groups reference
                                - apply-groups-exclude reference
                                - description description
                                - key-value string-not-all-spaces
                        - ed25519
```


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configure system security user-params local-user user public-keys ed25519 ed25519-key

```
                        - ed25519-key number
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - description description
                            - key-value string-not-all-spaces
                     - rsa
                        - rsa-key number
                            - apply-groups reference
                            - apply-groups-exclude reference
                            - description description
                            - key-value string-not-all-spaces
                  - restricted-to-home boolean
                  - save-when-restricted boolean
                  - snmp
                     - apply-groups reference
                     - apply-groups-exclude reference
                     - authentication
                        - authentication-key encrypted-leaf-hex-without-prefix
                        - authentication-protocol keyword
                        - privacy
                           - privacy-key encrypted-leaf-hex-without-prefix
                           - privacy-protocol keyword
                     - group named-item
                  - ssh-authentication-method
                     - client
                        - public-key-only keyword
                     - server
                        - public-key-only keyword
         - vprn-network-exceptions
            - count number
            - window number
      - telemetry
         - apply-groups reference
         - apply-groups-exclude reference
         - destination-group named-item
            - allow-unsecure-connection
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - destination (ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-
domain-name) port number
               - apply-groups reference
               - apply-groups-exclude reference
               - router-instance string
            - tcp-keepalive
               - admin-state keyword
               - idle-time number
               - interval number
               - retries number
            - tls-client-profile reference
         - notification-bundling
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - max-msg-count number
            - max-time-granularity number
         - persistent-subscriptions
            - delay-on-boot number
            - subscription named-item
               - admin-state keyword
               - apply-groups reference
               - apply-groups-exclude reference
               - description description
               - destination-group reference
```


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configure system telemetry persistent-subscriptions subscription encoding

```
            - encoding keyword
            - local-source-address (ipv4-address-no-zone | ipv6-address-no-zone)
            - mode keyword
            - originated-qos-marking keyword
            - sample-interval number
            - sensor-group reference
      - sensor-groups
         - sensor-group named-item
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - path string
   - thresholds
      - cflash-cap-alarm-percent thresholds-cflash-url
         - apply-groups reference
         - apply-groups-exclude reference
         - falling-threshold number
         - interval number
         - rising-threshold number
         - rmon-event-type keyword
         - startup-alarm keyword
      - cflash-cap-warn-percent thresholds-cflash-url
         - apply-groups reference
         - apply-groups-exclude reference
         - falling-threshold number
         - interval number
         - rising-threshold number
         - rmon-event-type keyword
         - startup-alarm keyword
      - kb-memory-use-alarm
         - apply-groups reference
         - apply-groups-exclude reference
         - falling-threshold number
         - interval number
         - rising-threshold number
         - rmon-event-type keyword
         - startup-alarm keyword
      - kb-memory-use-warn
         - apply-groups reference
         - apply-groups-exclude reference
         - falling-threshold number
         - interval number
         - rising-threshold number
         - rmon-event-type keyword
         - startup-alarm keyword
      - rmon
         - alarm number
            - apply-groups reference
            - apply-groups-exclude reference
            - falling-event number
            - falling-threshold number
            - interval number
            - owner string
            - rising-event number
            - rising-threshold number
            - sample-type keyword
            - startup-alarm keyword
            - variable-oid string
         - event number
            - apply-groups reference
            - apply-groups-exclude reference
            - description description
            - event-type keyword
            - owner string
```


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```
            - hc-alarm number
               - apply-groups reference
               - apply-groups-exclude reference
               - falling-event number
               - falling-threshold number
               - interval number
               - owner string-not-all-spaces
               - rising-event number
               - rising-threshold number
               - sample-type keyword
               - startup-alarm keyword
               - variable-oid string
      - time
         - apply-groups reference
         - apply-groups-exclude reference
         - daylight-saving-time-zone
            - apply-groups reference
            - apply-groups-exclude reference
            - non-standard
               - end
                  - day keyword
                  - hours-minutes hours-minutes-twenty-four
                  - month keyword
                  - week keyword
               - name string
               - offset number
               - start
                  - day keyword
                  - hours-minutes hours-minutes-twenty-four
                  - month keyword
                  - week keyword
            - standard
               - name keyword
         - ntp
            - admin-state keyword
            - apply-groups reference
            - apply-groups-exclude reference
            - authentication-check boolean
            - authentication-key number
               - apply-groups reference
               - apply-groups-exclude reference
               - key encrypted-leaf
               - type keyword
            - authentication-keychain reference
            - broadcast reference interface-name interface-name
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-keychain reference
               - key-id reference
               - ttl number
               - version number
            - broadcast-client string interface-name interface-name
               - apply-groups reference
               - apply-groups-exclude reference
               - authenticate boolean
            - max-poll number
            - min-poll number
            - multicast
               - apply-groups reference
               - apply-groups-exclude reference
               - authentication-keychain reference
               - key-id reference
               - version number
            - multicast-client
```


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configure system time ntp multicast-client apply-groups

```
                - apply-groups reference
                - apply-groups-exclude reference
                - authenticate boolean
             - ntp-server
                - authenticate boolean
             - peer (ipv4-address-no-zone | ipv6-address-no-zone) router-instance string
                - apply-groups reference
                - apply-groups-exclude reference
                - authentication-keychain reference
                - key-id reference
                - prefer boolean
                - version number
             - server (ipv4-address-no-zone | ipv6-address-no-zone | keyword) router-
instance string
                - apply-groups reference
                - apply-groups-exclude reference
                - authentication-keychain reference
                - key-id reference
                - prefer boolean
                - version number
          - prefer-local-time boolean
          - sntp
             - admin-state keyword
             - apply-groups reference
             - apply-groups-exclude reference
             - server ipv4-address
                - apply-groups reference
                - apply-groups-exclude reference
                - interval number
                - prefer boolean
                - version number
             - sntp-state keyword
          - zone
             - non-standard
                - name string
                - offset hours-minutes-with-range
             - standard
                - name keyword
       - transmission-profile named-item
          - apply-groups reference
          - apply-groups-exclude reference
          - http-version keyword
          - ipv4-source-address ipv4-unicast-address
          - ipv6-source-address ipv6-address
          - redirection number
          - retry number
          - router-instance router-instance-base-management-vprn-loose
          - timeout number
       - usb keyword
          - admin-state keyword
          - apply-groups reference
          - apply-groups-exclude reference
```


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4.29.1 system command descriptions

system

Synopsis	Enter the **system** context
Context	**configure** system
Tree	system
Description	Commands in this context enable the configuration of general system level functions and router management protocols.
Introduced	25.3.R2
Platforms	SAR Gen 2

alarm-contact-input [input-pin-number] *number*

Synopsis	Enter the **alarm-contact-input** list instance
Context	**configure** system alarm-contact-input *number*
Tree	alarm-contact-input
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**input-pin-number**] *number*

Synopsis	Alarm contact input number
Context	**configure** system alarm-contact-input *number*
Tree	alarm-contact-input
Range	1 to 4
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the alarm contact input
Context	**configure** system alarm-contact-input *number* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clear-message *description*

Synopsis	Text message sent in the log event when an alarm clears
Context	**configure** system alarm-contact-input *number* clear-message *description*
Tree	clear-message
Description	This command configures a text message to be included in the log event that is sent when the system clears an alarm. The system generates the default "Alarm Input Cleared" message if no message is configured. The **clear-message** string is included in the log event when the pin changes to the normal state.
String length	1 to 80
Default	Alarm Input Cleared
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

description *long-description*

Synopsis	Text description
Context	**configure** system alarm-contact-input *number* description *long-description*
Tree	description
String length	1 to 160
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

normal-state *keyword*

Synopsis	Normal state associated with the alarm contact input
Context	**configure** system alarm-contact-input *number* normal-state *keyword*
Tree	normal-state

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Options	open, closed
Default	open
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

trigger-message *description*

Synopsis	Text message sent in the log event when input changes
Context	**configure** system alarm-contact-input *number* trigger-message *description*
Tree	trigger-message
Description	This command configures a text message to be included in the log event that is sent when the system generates an alarm. The system generates the default message "Alarm Input Triggered" if no message is configured. This command's message string is included in the log event when the pin changes from the normal state.
String length	1 to 80
Default	Alarm Input Triggered
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

alarms

Synopsis	Enter the **alarms** context
Context	**configure** system alarms
Tree	alarms
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the system alarm
Context	**configure** system alarms admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

max-cleared *number*

Synopsis	Maximum number of cleared alarms
Context	**configure** system alarms max-cleared *number*
Tree	max-cleared
Range	0 to 500
Default	500
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-boot-license-violations *boolean*

Synopsis	Allow boot license violations in boot-up configuration
Context	**configure** system allow-boot-license-violations *boolean*
Tree	allow-boot-license-violations
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

boot-bad-exec *url*

Synopsis	CLI script file to execute following a failed boot
Context	**configure** system boot-bad-exec *url*
Tree	boot-bad-exec
Description	This command configures the name of the CLI script file to be run following the failure of a boot configuration. **Note**: This command has no effect in model-driven mode.
String length	1 to 180
Introduced	25.3.R2
Platforms	SAR Gen 2

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boot-good-exec *url*

Synopsis	CLI script file to execute following successful boot
Context	**configure** system boot-good-exec *url*
Tree	boot-good-exec
Description	This command configures a URL for a CLI script to **exec** following the success of a boot configuration. **Related Commands** **exec** - This command executes the contents of a text file as if they were CLI commands entered at the console.
String length	1 to 180
Introduced	25.3.R2
Platforms	SAR Gen 2

central-frequency-clock

Synopsis	Enter the **central-frequency-clock** context
Context	**configure** system central-frequency-clock
Tree	central-frequency-clock
Description	Commands in this context configure synchronous interface timing.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

gnss

Synopsis	Enter the **gnss** context
Context	**configure** system central-frequency-clock gnss
Tree	gnss
Description	Commands in this context configure system timing using GNSS on platforms that support one or more embedded GNSS receivers.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the GNSS timing reference

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Context	**configure** system central-frequency-clock gnss admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ql-override *keyword*

Synopsis	Quality level override for a timing reference
Context	**configure** system central-frequency-clock gnss ql-override *keyword*
Tree	ql-override
Options	unused – Not used prs – SONET Primary Reference Source traceable stu – SONET Synchronous Traceability Unknown st2 – SONET Stratum 2 traceable tnc – SONET Transit Node Clock traceable st3e – SONET Stratum 3E traceable st3 – SONET Stratum 3 traceable eprtc – Enhanced Primary Reference Time Clock prtc – Primary Reference Time Clock eprc – Enhanced Primary Reference Clock eeec – Enhanced Ethernet Equipment Clock
Default	unused
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ptp

Synopsis	Enter the **ptp** context
Context	**configure** system central-frequency-clock ptp
Tree	ptp
Description	Commands in this context configure system timing using IEEE 1588-2008, PTP.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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admin-state *keyword*

Synopsis	Administrative state of the PTP timing reference
Context	**configure** system central-frequency-clock ptp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ql-override *keyword*

Synopsis	Quality level override of a timing reference
Context	**configure** system central-frequency-clock ptp ql-override *keyword*
Tree	ql-override
Options	unused – Not used prs – SONET Primary Reference Source traceable stu – SONET Synchronous Traceability Unknown st2 – SONET Stratum 2 traceable tnc – SONET Transit Node Clock traceable st3e – SONET Stratum 3E traceable st3 – SONET Stratum 3 traceable prc – SDH Primary Reference Clock traceable ssua – SDH primary level Synchronization Supply Unit traceable ssub – SDH second Level Synchronization Supply Unit traceable sec – SDH Synchronous Equipment Clock traceable eprtc – Enhanced Primary Reference Time Clock prtc – Primary Reference Time Clock eprc – Enhanced Primary Reference Clock eeec – Enhanced Ethernet Equipment Clock
Default	unused
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ql-minimum *keyword*

Synopsis	Minimum signal QL for system timing module
Context	**configure** system central-frequency-clock ql-minimum *keyword*
Tree	ql-minimum

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Description	This command configures the minimum acceptable QL value for a signal to be considered for selection by the system timing module.
Options	unused – Not used prs – SONET Primary Reference Source traceable stu – SONET Synchronous Traceability Unknown st2 – SONET Stratum 2 traceable tnc – SONET Transit Node Clock traceable st3e – SONET Stratum 3E traceable st3 – SONET Stratum 3 traceable prc – SDH Primary Reference Clock traceable ssua – SDH primary level Synchronization Supply Unit traceable ssub – SDH second Level Synchronization Supply Unit traceable sec – SDH Synchronous Equipment Clock traceable eec1 – SDH Ethernet Equipment Clock eec2 – SONET Ethernet Equipment Clock eprtc – Enhanced Primary Reference Time Clock prtc – Primary Reference Time Clock eprc – Enhanced Primary Reference Clock eeec – Enhanced Ethernet Equipment Clock
Default	unused
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ql-selection *boolean*

Synopsis	Consider QL in system and BITS output timing
Context	**configure** system central-frequency-clock ql-selection *boolean*
Tree	ql-selection
Description	When configured to **true**, the router considers the QL when selecting the system timing reference and BITS output timing reference. The QL is conveyed via the SSM or forced using the **ql-override** command.
Default	false
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ref-order

Synopsis	Enter the **ref-order** context
Context	**configure** system central-frequency-clock ref-order
Tree	ref-order

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Description	Commands in this context specify the priority order of the synchronous equipment timing subsystem**.** If a reference source is disabled, this command defines the next reference source for the clock. If all reference sources are disabled, clocking is derived from a local oscillator. If a timing reference is linked to a source port that is operationally down, the port is no longer a qualified, valid reference.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

first *keyword*

Synopsis	First preferred timing reference source
Context	**configure** system central-frequency-clock ref-order first *keyword*
Tree	first
Options	ref1, ref2, bits, ptp, none, synce, gnss
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

fourth *keyword*

Synopsis	Fourth preferred timing reference source
Context	**configure** system central-frequency-clock ref-order fourth *keyword*
Tree	fourth
Options	ref1, ref2, bits, ptp, none, synce, gnss
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

second *keyword*

Synopsis	Second preferred timing reference source
Context	**configure** system central-frequency-clock ref-order second *keyword*
Tree	second
Options	ref1, ref2, bits, ptp, none, synce, gnss
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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third *keyword*

Synopsis	Third preferred timing reference source
Context	**configure** system central-frequency-clock ref-order third *keyword*
Tree	third
Options	ref1, ref2, bits, ptp, none, synce, gnss
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ref1

Synopsis	Enter the **ref1** context
Context	**configure** system central-frequency-clock ref1
Tree	ref1
Description	Commands in this context configure the first timing reference. [
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the first timing reference
Context	**configure** system central-frequency-clock ref1 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ql-override *keyword*

Synopsis	Quality level override of a timing reference
Context	**configure** system central-frequency-clock ref1 ql-override *keyword*
Tree	ql-override

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Description	This command configures the QL value used for the reference for SETS input selection. This value overrides any value received by the referenced SSM process.
Options	unused – Not used prs – SONET Primary Reference Source traceable stu – SONET Synchronous Traceability Unknown st2 – SONET Stratum 2 traceable tnc – SONET Transit Node Clock traceable st3e – SONET Stratum 3E traceable st3 – SONET Stratum 3 traceable prc – SDH Primary Reference Clock traceable ssua – SDH primary level Synchronization Supply Unit traceable ssub – SDH second Level Synchronization Supply Unit traceable sec – SDH Synchronous Equipment Clock traceable eec1 – SDH Ethernet Equipment Clock eec2 – SONET Ethernet Equipment Clock eprtc – Enhanced Primary Reference Time Clock prtc – Primary Reference Time Clock eprc – Enhanced Primary Reference Clock eeec – Enhanced Ethernet Equipment Clock
Default	unused
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

source-port *port*

Synopsis	Source port for the first timing reference
Context	**configure** system central-frequency-clock ref1 source-port *port*
Tree	source-port
Description	This command configures the source port for timing reference **ref1**. If the port is unavailable or the link is down, the reference sources are reevaluated according to the reference order configured in the **ref-order** command. There are platform-based restrictions on the location for the source port locations for **ref1**. See the *7705 SAR Gen 2 Basic System Configuration Guide* for more information.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ref2

Synopsis	Enter the **ref2** context
Context	**configure** system central-frequency-clock ref2
Tree	ref2

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Description	Commands in this context configure the second timing reference.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the second timing reference
Context	**configure** system central-frequency-clock ref2 admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ql-override *keyword*

Synopsis	Quality level override of a timing reference
Context	**configure** system central-frequency-clock ref2 ql-override *keyword*
Tree	ql-override
Description	This command configures the QL value used for the reference for SETS input selection. This value overrides any value received by the referenced SSM process.
Options	unused – Not used prs – SONET Primary Reference Source traceable stu – SONET Synchronous Traceability Unknown st2 – SONET Stratum 2 traceable tnc – SONET Transit Node Clock traceable st3e – SONET Stratum 3E traceable st3 – SONET Stratum 3 traceable prc – SDH Primary Reference Clock traceable ssua – SDH primary level Synchronization Supply Unit traceable ssub – SDH second Level Synchronization Supply Unit traceable sec – SDH Synchronous Equipment Clock traceable eec1 – SDH Ethernet Equipment Clock eec2 – SONET Ethernet Equipment Clock eprtc – Enhanced Primary Reference Time Clock prtc – Primary Reference Time Clock eprc – Enhanced Primary Reference Clock eeec – Enhanced Ethernet Equipment Clock
Default	unused
Introduced	25.3.R2

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

source-port *port*

Synopsis	Source port for the second timing reference
Context	**configure** system central-frequency-clock ref2 source-port *port*
Tree	source-port
Description	This command configures the source port for timing reference **ref2**. If the port is unavailable or the link is down, the reference sources are reevaluated according to the reference order configured in the **ref-order** command. There are platform-based restrictions on the location for the source port locations for **ref2**. See the *7705 SAR Gen 2 Basic System Configuration Guide* for more information.
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

revert *boolean*

Synopsis	Revert to higher-priority reference source
Context	**configure** system central-frequency-clock revert *boolean*
Tree	revert
Description	When configured to **true**, the router operates in revertive mode, allowing the clock to revert to a higher priority reference if the current reference goes offline or becomes unstable. When the failed reference becomes operational, it is eligible for selection. When configured to **false**, the router does not allow a failed clocked source to be selected again.
Default	false
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

wait-to-restore *number*

Synopsis	Time to revalidate a previously failed input reference
Context	**configure** system central-frequency-clock wait-to-restore *number*
Tree	wait-to-restore
Description	This command configures the time for the Wait to Restore timer. A previously failed input reference must be valid for the specified time before it can be used for either the BITS output or the central clock input reference.

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Range	1 to 12
Units	minutes
Introduced	25.3.R2
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clli-code *clli-description*

Synopsis	CLLI code value for the system
Context	**configure** system clli-code *clli-description*
Tree	clli-code
String length	11
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

congestion-management *boolean*

Synopsis	Enable Virtual Service Router congestion management
Context	**configure** system congestion-management *boolean*
Tree	congestion-management
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

contact *description*

Synopsis	Contact information for the managed node
Context	**configure** system contact *description*
Tree	contact
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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coordinates *description*

Synopsis	GPS coordinates for the system location
Context	**configure** system coordinates *description*
Tree	coordinates
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

cron

Synopsis	Enter the **cron** context
Context	**configure** system cron
Tree	cron
Introduced	25.3.R2
Platforms	SAR Gen 2

schedule [schedule-name] *named-item* owner *named-item*

Synopsis	Enter the **schedule** list instance
Context	**configure** system cron schedule *named-item* owner *named-item*
Tree	schedule
Max. instances	255
Introduced	25.3.R2
Platforms	SAR Gen 2

[**schedule-name**] *named-item*

Synopsis	Schedule name
Context	**configure** system cron schedule *named-item* owner *named-item*
Tree	schedule
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *named-item*

Synopsis	Schedule owner
Context	**configure** system cron schedule *named-item* owner *named-item*
Tree	schedule
String length	1 to 32
MD-CLI default	TiMOS CLI
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the CRON schedule
Context	**configure** system cron schedule *named-item* owner *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

count *number*

Synopsis	Number of times to repeat a periodic schedule run
Context	**configure** system cron schedule *named-item* owner *named-item* count *number*
Tree	count
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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day-of-month *number*

Synopsis	Days in a month when a schedule runs
Context	**configure** system cron schedule *named-item* owner *named-item* day-of-month *number*
Tree	day-of-month
Range	-31 to -1 | 1 to 31
Max. instances	62
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system cron schedule *named-item* owner *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

end-time

Synopsis	Enter the **end-time** context
Context	**configure** system cron schedule *named-item* owner *named-item* end-time
Tree	end-time
Introduced	25.3.R2
Platforms	SAR Gen 2

date-and-time *date-and-time*

Synopsis	Date and time to stop triggering the schedule
Context	**configure** system cron schedule *named-item* owner *named-item* end-time date-and-time *date-and-time*
Tree	date-and-time
Notes	The following elements are part of a choice: **date-and-time** or (**day** and **time**).

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Introduced	25.3.R2
Platforms	SAR Gen 2

day *keyword*

Synopsis	Day to stop triggering the schedule
Context	**configure** system cron schedule *named-item* owner *named-item* end-time day *keyword*
Tree	day
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Notes	The following elements are part of a choice: **date-and-time** or (**day** and **time**).
Introduced	25.3.R2
Platforms	SAR Gen 2

time *hours-minutes-twenty-four*

Synopsis	Time to stop triggering the schedule
Context	**configure** system cron schedule *named-item* owner *named-item* end-time time *hours-minutes-twenty-four*
Tree	time
String length	5
String format	'hours-minutes-twenty-four' must be hh:mm, hours 00-23, minutes 00-59 (e.g. 14:30)
Notes	The following elements are part of a choice: **date-and-time** or (**day** and **time**).
Introduced	25.3.R2
Platforms	SAR Gen 2

hour *number*

Synopsis	Hours within a day when the schedule runs
Context	**configure** system cron schedule *named-item* owner *named-item* hour *number*
Tree	hour
Range	0 to 23
Max. instances	24
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

Synopsis	Time between each periodic schedule run
Context	**configure** system cron schedule *named-item* owner *named-item* interval *number*
Tree	interval
Range	30 to 42949672
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

minute *number*

Synopsis	Minutes in an hour when the schedule runs
Context	**configure** system cron schedule *named-item* owner *named-item* minute *number*
Tree	minute
Range	0 to 59
Max. instances	60
Introduced	25.3.R2
Platforms	SAR Gen 2

month *(keyword | number)*

Synopsis	Months when the schedule runs
Context	**configure** system cron schedule *named-item* owner *named-item* month *(keyword | number)*
Tree	month
Range	1 to 12
Options	january, february, march, april, may, june, july, august, september, october, november, december
Max. instances	12
Introduced	25.3.R2
Platforms	SAR Gen 2

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script-policy

Synopsis	Enter the **script-policy** context
Context	**configure** system cron schedule *named-item* owner *named-item* script-policy
Tree	script-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

name *named-item*

Synopsis	CLI script policy name
Context	**configure** system cron schedule *named-item* owner *named-item* script-policy name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *named-item*

Synopsis	Script policy owner
Context	**configure** system cron schedule *named-item* owner *named-item* script-policy owner *named-item*
Tree	owner
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Schedule type
Context	**configure** system cron schedule *named-item* owner *named-item* type *keyword*
Tree	type
Options	periodic, calendar, oneshot

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Default	periodic
Introduced	25.3.R2
Platforms	SAR Gen 2

weekday *(keyword | number)*

Synopsis	Weekdays when the schedule runs
Context	**configure** system cron schedule *named-item* owner *named-item* weekday *(keyword | number)*
Tree	weekday
Range	1 to 7
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

dhcp6

Synopsis	Enter the **dhcp6** context
Context	**configure** system dhcp6
Tree	dhcp6
Introduced	25.3.R2
Platforms	SAR Gen 2

adv-noaddrs-global *keyword*

Synopsis	Applications to send NoAddrsAvail in Advertise messages
Context	**configure** system dhcp6 adv-noaddrs-global *keyword*
Tree	adv-noaddrs-global
Options	esm-relay, server
Max. instances	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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dns

Synopsis	Enter the **dns** context
Context	**configure** system dns
Tree	dns
Introduced	25.3.R2
Platforms	SAR Gen 2

address-pref *keyword*

Synopsis	Preference in DNS address resolving order
Context	**configure** system dns address-pref *keyword*
Tree	address-pref
Options	ipv4-only, ipv6-first
Introduced	25.3.R2
Platforms	SAR Gen 2

dnssec

Synopsis	Enter the **dnssec** context
Context	**configure** system dns dnssec
Tree	dnssec
Introduced	25.3.R2
Platforms	SAR Gen 2

ad-validation *keyword*

Synopsis	Validation of AD-bit presence in DNS server responses
Context	**configure** system dns dnssec ad-validation *keyword*
Tree	ad-validation
Options	fall-through – Allow non-DNSSEC responses to fall-through to permit resolution in case of validation failure drop – Drop non-DNSSEC responses in case of validation failure
Introduced	25.3.R2
Platforms	SAR Gen 2

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eth-cfm

Synopsis	Enter the **eth-cfm** context
Context	**configure** system eth-cfm
Tree	eth-cfm
Introduced	25.3.R2
Platforms	SAR Gen 2

md-auto-id

Synopsis	Enter the **md-auto-id** context
Context	**configure** system eth-cfm md-auto-id
Tree	md-auto-id
Introduced	25.3.R2
Platforms	SAR Gen 2

ma-index-range

Synopsis	Enable the **ma-index-range** context
Context	**configure** system eth-cfm md-auto-id ma-index-range
Tree	ma-index-range
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of the range
Context	**configure** system eth-cfm md-auto-id ma-index-range end *number*
Tree	end
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

start *number*

WARNING:
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Synopsis	Lower bound of the range
Context	**configure** system eth-cfm md-auto-id ma-index-range start *number*
Tree	start
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

md-index-range

Synopsis	Enable the **md-index-range** context
Context	**configure** system eth-cfm md-auto-id md-index-range
Tree	md-index-range
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Upper bound of the range
Context	**configure** system eth-cfm md-auto-id md-index-range end *number*
Tree	end
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

start *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Lower bound of the range
Context	**configure** system eth-cfm md-auto-id md-index-range start *number*
Tree	start
Range	1 to 4294967295
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

named-display *boolean*

Synopsis	Enable administrative name display in CLI show outputs
Context	**configure** system eth-cfm named-display *boolean*
Tree	named-display
Description	When configured to **true**, the system displays the administrative names for domains, associations, and bridge-identifiers in **show eth-cfm** command outputs in addition to the numerical maintenance domain (MD) index, maintenance association (MA) index, and bridge ID values. The administrative names are displayed underneath the numerical values, each on a separate row. When configured to **false**, the system only displays the numerical MD index, MA index, and bridge ID values in **show eth-cfm** command outputs.
Default	false
Introduced	25.10.R1
Platforms	SAR Gen 2

redundancy

Synopsis	Enter the **redundancy** context
Context	**configure** system eth-cfm redundancy
Tree	redundancy

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Introduced	25.3.R2
Platforms	SAR Gen 2

mc-lag

Synopsis	Enter the **mc-lag** context
Context	**configure** system eth-cfm redundancy mc-lag
Tree	mc-lag
Description	Commands in this context configure the MC-LAG specific ETH-CFM redundancy options.
Introduced	25.3.R2
Platforms	SAR Gen 2

propagate-hold-time *(number | keyword)*

Synopsis	Delay timer value for the fault propagation
Context	**configure** system eth-cfm redundancy mc-lag propagate-hold-time *(number | keyword)*
Tree	propagate-hold-time
Description	This command configures the delay for fault propagation because of port or MC-LAG state changes. This provides the amount of time for system stabilization during a port state change that may be protected by MC-LAG.
Range	1 to 60
Units	seconds
Options	none
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

standby-mep *boolean*

Synopsis	Allow standby MC-LAG MEPs to act administratively down
Context	**configure** system eth-cfm redundancy mc-lag standby-mep *boolean*
Tree	standby-mep
Description	This command, which is system wide, configures MEPs to track the state of MC-LAG. This allows MEPs on the standby MC-LAG to act administratively down.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

slm

Synopsis	Enter the **slm** context
Context	**configure** system eth-cfm slm
Tree	slm
Introduced	25.3.R2
Platforms	SAR Gen 2

inactivity-timer *number*

Synopsis	SLR inactivity timer to maintain the stale test data
Context	**configure** system eth-cfm slm inactivity-timer *number*
Tree	inactivity-timer
Description	This command configures the time that the responder keeps a test active. If the time between packets exceeds this value within a test, the responder marks the previous test as complete. It treats any new packets from a peer with the same test ID, source MAC, and MEP-ID as a new test responding with the sequence number one.
Range	10 to 100
Units	seconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc

Synopsis	Enter the **grpc** context
Context	**configure** system grpc
Tree	grpc
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the gRPC server
Context	**configure** system grpc admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-unsecure-connection

Synopsis	Allow connection without secured transport protocol
Context	**configure** system grpc allow-unsecure-connection
Tree	allow-unsecure-connection
Description	When configured, the system allows an unsecured connection to remote managers; TCP connections are not encrypted, including username and password information.
Notes	The following elements are part of a choice: **allow-unsecure-connection** or **tls-server-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

custom-proto [name] *named-item*

Synopsis	Enter the **custom-proto** list instance
Context	**configure** system grpc custom-proto *named-item*
Tree	custom-proto
Max. instances	1
Introduced	26.7.R1
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Custom proto name
Context	**configure** system grpc custom-proto *named-item*

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Tree	custom-proto
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of customized proto
Context	**configure** system grpc custom-proto *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.7.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system grpc custom-proto *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

python-script *reference*

Synopsis	Python script name handling RPC from proto file
Context	**configure** system grpc custom-proto *named-item* python-script *reference*
Tree	python-script
Reference	**configure** python python-script *named-item*
Introduced	26.7.R1

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Platforms	SAR Gen 2

urls *cflash-url*

Synopsis	Locations of compiled proto file
Context	**configure** system grpc custom-proto *named-item* urls *cflash-url*
Tree	urls
String length	1 to 200
String format	'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters
Max. instances	3
Notes	This element is ordered by the user.
Introduced	26.7.R1
Platforms	SAR Gen 2

delay-on-boot *number*

Synopsis	Delay for gRPC connections after system boot
Context	**configure** system grpc delay-on-boot *number*
Tree	delay-on-boot
Description	This command configures the delay timer for gRPC connections. When the timer expires, gRPC becomes operational and connections are accepted. This delay prevents automation from managing the system while it is still converging. When no delay is configured, connections are accepted after the system boots and gRPC becomes operational.
Range	1 to 3600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

gnmi

Synopsis	Enter the **gnmi** context
Context	**configure** system grpc gnmi
Tree	gnmi

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the gNMI service
Context	**configure** system grpc gnmi admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-config-save *boolean*

Synopsis	Automatically save configuration as part of commit
Context	**configure** system grpc gnmi auto-config-save *boolean*
Tree	auto-config-save
Description	When configured to **true**, the system automatically writes the running configuration to the saved configuration file as part of a successful commit operation.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

proto-version *keyword*

Synopsis	gnmi.proto version
Context	**configure** system grpc gnmi proto-version *keyword*
Tree	proto-version
Description	This command sets the gnmi.proto version that the gRPC server should use for all gNMI RPCs. Only use options other than **latest** for backward compatibility with legacy collectors.
Options	latest – Latest version 0.8.0 v070 – Version 0.7.0
Default	latest
Introduced	25.3.R2

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Platforms	SAR Gen 2

gnoi

Synopsis	Enter the **gnoi** context
Context	**configure** system grpc gnoi
Tree	gnoi
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-mgmt

Synopsis	Enter the **cert-mgmt** context
Context	**configure** system grpc gnoi cert-mgmt
Tree	cert-mgmt
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of gNOI CertificateManagement
Context	**configure** system grpc gnoi cert-mgmt admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

file

Synopsis	Enter the **file** context
Context	**configure** system grpc gnoi file
Tree	file
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the gNOI File service
Context	**configure** system grpc gnoi file admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

system

Synopsis	Enter the **system** context
Context	**configure** system grpc gnoi system
Tree	system
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the gNOI System service
Context	**configure** system grpc gnoi system admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

listening-port *number*

Synopsis	Listening port for the gRPC server
Context	**configure** system grpc listening-port *number*
Tree	listening-port
Range	1024 to 49151 | 57400
Default	57400

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Introduced	25.3.R2
Platforms	SAR Gen 2

max-msg-size *number*

Synopsis	Maximum size of received message
Context	**configure** system grpc max-msg-size *number*
Tree	max-msg-size
Range	1 to 1024
Units	megabytes
Default	512
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-keepalive

Synopsis	Enter the **tcp-keepalive** context
Context	**configure** system grpc tcp-keepalive
Tree	tcp-keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the TCP keepalive algorithm
Context	**configure** system grpc tcp-keepalive admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-time *number*

Synopsis	Time until the first TCP keepalive probe is sent

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Context	**configure** system grpc tcp-keepalive idle-time *number*
Tree	idle-time
Description	This command configures the amount of time the connection must be idle before TCP keepalives are sent.
Range	1 to 100000
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Time between TCP keep-alive probes
Context	**configure** system grpc tcp-keepalive interval *number*
Tree	interval
Range	1 to 100000
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

retries *number*

Synopsis	Number of probe retries before closing the connection
Context	**configure** system grpc tcp-keepalive retries *number*
Tree	retries
Description	This command configures the number of missed TCP keepalive probes before closing the TCP connection and attempting to reach the other destinations within the same destination group.
Range	3 to 100
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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tls-server-profile *reference*

Synopsis	Preferred TLS server profile
Context	**configure** system grpc tls-server-profile *reference*
Tree	tls-server-profile
Reference	**configure** system security tls server-tls-profile *named-item*
Notes	The following elements are part of a choice: **allow-unsecure-connection** or **tls-server-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc-tunnel

Synopsis	Enter the **grpc-tunnel** context
Context	**configure** system grpc-tunnel
Tree	grpc-tunnel
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-on-boot *number*

Synopsis	Delay for gRPC tunnels after system boot
Context	**configure** system grpc-tunnel delay-on-boot *number*
Tree	delay-on-boot
Description	This command configures the delay timer for gRPC tunnels. When the timer expires, gRPC tunnels become operational and connections are accepted. This delay prevents the system from trying to initiate gRPC tunnels while it is still converging. When no delay is configured, gRPC tunnels are initiated after the system boots and gRPC becomes operational.
Range	1 to 3600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

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destination-group [name] *named-item*

Synopsis	Enter the **destination-group** list instance
Context	**configure** system grpc-tunnel destination-group *named-item*
Tree	destination-group
Description	Commands in this context configure parameters for destination groups.
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Destination group name
Context	**configure** system grpc-tunnel destination-group *named-item*
Tree	destination-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-unsecure-connection

Synopsis	Allow unsecured operation of gRPC connections
Context	**configure** system grpc-tunnel destination-group *named-item* allow-unsecure-connection
Tree	allow-unsecure-connection
Description	This command allows a gRPC tunnel to run without a secured transport protocol. Data is transferred in unencrypted form.
Notes	The following elements are part of a choice: **allow-unsecure-connection** or **tls-client-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** system grpc-tunnel destination-group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination [address] *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*

Synopsis	Enter the **destination** list instance
Context	**configure** system grpc-tunnel destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*
Tree	destination
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*

Synopsis	Address of the destination within the destination group
Context	**configure** system grpc-tunnel destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*
Tree	destination
String length	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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port *number*

Synopsis	TCP port number for the destination
Context	**configure** system grpc-tunnel destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*
Tree	destination
Range	1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Local IP address of packets sent from the source
Context	**configure** system grpc-tunnel destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number* local-source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

originated-qos-marking *keyword*

Synopsis	QoS marking used for gRPC tunnel packets
Context	**configure** system grpc-tunnel destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number* originated-qos-marking *keyword*
Tree	originated-qos-marking
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-instance *string*

Synopsis	Router instance for the destination group
Context	**configure** system grpc-tunnel destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number* router-instance *string*
Tree	router-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-keepalive

Synopsis	Enter the **tcp-keepalive** context
Context	**configure** system grpc-tunnel destination-group *named-item* tcp-keepalive
Tree	tcp-keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the TCP keepalive algorithm
Context	**configure** system grpc-tunnel destination-group *named-item* tcp-keepalive admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-time *number*

Synopsis	Time until the first TCP keepalive probe is sent
Context	**configure** system grpc-tunnel destination-group *named-item* tcp-keepalive idle-time *number*
Tree	idle-time

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Description	This command configures the amount of time the connection must be idle before TCP keepalives are sent.
Range	1 to 100000
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Time between TCP keep-alive probes
Context	**configure** system grpc-tunnel destination-group *named-item* tcp-keepalive interval *number*
Tree	interval
Range	1 to 100000
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

retries *number*

Synopsis	Number of probe retries before closing the connection
Context	**configure** system grpc-tunnel destination-group *named-item* tcp-keepalive retries *number*
Tree	retries
Description	This command configures the number of missed TCP keepalive probes before closing the TCP connection and attempting to reach the other destinations within the same destination group.
Range	3 to 100
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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tls-client-profile *reference*

Synopsis	TLS client profile assigned to the destination group
Context	**configure** system grpc-tunnel destination-group *named-item* tls-client-profile *reference*
Tree	tls-client-profile
Reference	**configure** system security tls client-tls-profile *named-item*
Notes	The following elements are part of a choice: **allow-unsecure-connection** or **tls-client-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

tunnel [name] *named-item*

Synopsis	Enter the **tunnel** list instance
Context	**configure** system grpc-tunnel tunnel *named-item*
Tree	tunnel
Description	Commands in this context configure gRPC-tunnel-related parameters.
Max. instances	4
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Tunnel name
Context	**configure** system grpc-tunnel tunnel *named-item*
Tree	tunnel
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the tunnel
Context	**configure** system grpc-tunnel tunnel *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system grpc-tunnel tunnel *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-group *reference*

Synopsis	Destination group used in the tunnel
Context	**configure** system grpc-tunnel tunnel *named-item* destination-group *reference*
Tree	destination-group
Reference	**configure** system grpc-tunnel destination-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

handler [name] *named-item*

Synopsis	Enter the **handler** list instance
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item*
Tree	handler

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Description	Commands in this context configure handler parameters for this instance. Multiple handlers can be created for any tunnel.
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Handler name
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item*
Tree	handler
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the handler
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP port number the handler listens to internally
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item* port *number*
Tree	port
Range	1 to 65535
Introduced	25.3.R2

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Platforms	SAR Gen 2

target-type

Synopsis	Enter the **target-type** context
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item* target-type
Tree	target-type
Introduced	25.3.R2
Platforms	SAR Gen 2

custom-type *string*

Synopsis	Custom string for target type
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item* target-type custom-type *string*
Tree	custom-type
Description	This command configures a custom string for the target type. This string can correspond to specific values used by the gRPC tunnel protocol, such as GNMI_GNOI or SSH. If a custom string is defined, the gRPC tunnel client must specify the string to request a session for that handler. The string must be unique within a tunnel.
String length	1 to 64
String format	'custom-type' must contain only uppercase letters, digits or underscores
Notes	The following elements are part of a choice: **custom-type**, **grpc-server**, or **ssh-server**.
Introduced	25.3.R2
Platforms	SAR Gen 2

grpc-server

Synopsis	Target type set to GNMI_GNOI
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item* target-type grpc-server
Tree	grpc-server
Description	When configured, this command assigns the gRPC server as a handler for all tunnels sessions. At the gRPC tunnel protocol level, this corresponds to a value of GNMI_GNOI.
Notes	The following elements are part of a choice: **custom-type**, **grpc-server**, or **ssh-server**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

ssh-server

Synopsis	Target type is SSH
Context	**configure** system grpc-tunnel tunnel *named-item* handler *named-item* target-type ssh-server
Tree	ssh-server
Description	When configured, this command assigns the SSH server as a handler for all tunnels sessions. At the gRPC tunnel protocol level, this corresponds to a value of SSH.
Notes	The following elements are part of a choice: **custom-type**, **grpc-server**, or **ssh-server**.
Introduced	25.3.R2
Platforms	SAR Gen 2

target-name

Synopsis	Enter the **target-name** context
Context	**configure** system grpc-tunnel tunnel *named-item* target-name
Tree	target-name
Introduced	25.3.R2
Platforms	SAR Gen 2

custom-string *named-item-64*

Synopsis	Custom target name
Context	**configure** system grpc-tunnel tunnel *named-item* target-name custom-string *named-item-64*
Tree	custom-string
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **custom-string**, **node-name**, or **user-agent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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node-name

Synopsis	Set the node name as target name
Context	**configure** system grpc-tunnel tunnel *named-item* target-name node-name
Tree	node-name
Description	When configured, this command uses the node name as the target name. The node name is configured by the **configure system name** command.
Notes	The following elements are part of a choice: **custom-string**, **node-name**, or **user-agent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

user-agent

Synopsis	Set the user agent as the target name
Context	**configure** system grpc-tunnel tunnel *named-item* target-name user-agent
Tree	user-agent
Description	When configured, this command uses the user agent as the target name. The agent is a string consisting of *node-name*:*vendor*:*model*:*software-version*.
Notes	The following elements are part of a choice: **custom-string**, **node-name**, or **user-agent**.
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp-vse *boolean*

Synopsis	Enable vendor-specific extensions to ICMP
Context	**configure** system icmp-vse *boolean*
Tree	icmp-vse
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ip

Synopsis	Enter the **ip** context

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Context	**configure** system ip
Tree	ip
Description	Commands in this context configure system-wide IP router options.
Introduced	25.3.R2
Platforms	SAR Gen 2

buffer-unresolved-packets *boolean*

Synopsis	Buffer unresolved packets during ARP
Context	**configure** system ip buffer-unresolved-packets *boolean*
Tree	buffer-unresolved-packets
Description	When configured to **true**, the system buffers IPv4 and IPv6 packets waiting for the address resolution process (ARP) or neighbor discovery (ND) reply. When configured to **false**, the system discards packets during the address resolution process. The system discards IPv4 and IPv6 traffic needing a destination resolution that is buffered while waiting for a response to avoid any potential of out-of-order delivery of packets to the resolved destination. As a result, after the ARP or ND entry is populated, the system delivers only newly received packets in order.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-unique-if-index *boolean*

Synopsis	Force creation of globally unique IP interface indexes
Context	**configure** system ip enforce-unique-if-index *boolean*
Tree	enforce-unique-if-index
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

forward-6in4 *boolean*

Synopsis	Allow forwarding of IPv6 over IPv4 to system IP address
Context	**configure** system ip forward-6in4 *boolean*
Tree	forward-6in4

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

forward-ip-over-gre *boolean*

Synopsis	Allow forwarding of IP over GRE to system IP address
Context	**configure** system ip forward-ip-over-gre *boolean*
Tree	forward-ip-over-gre
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-eh *keyword*

Synopsis	Number of IPv6 extension headers parsed in line cards
Context	**configure** system ip ipv6-eh *keyword*
Tree	ipv6-eh
Options	max, limited
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

lacp

Synopsis	Enter the **lacp** context
Context	**configure** system lacp
Tree	lacp
Introduced	25.3.R2
Platforms	SAR Gen 2

system-priority *number*

Synopsis	LACP system priority on aggregated Ethernet interfaces
Context	**configure** system lacp system-priority *number*

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Tree	system-priority
Range	1 to 65535
Default	32768
Introduced	25.3.R2
Platforms	SAR Gen 2

lldp

Synopsis	Enter the **lldp** context
Context	**configure** system lldp
Tree	lldp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of LLDP
Context	**configure** system lldp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

message-fast-tx *number*

Synopsis	Interval at which LLDP frames are transmitted
Context	**configure** system lldp message-fast-tx *number*
Tree	message-fast-tx
Description	This command configures the interval at which LLDP frames are transmitted on behalf of the LLDP during a fast transmission period.
Range	1 to 3600
Units	seconds
Default	1
Introduced	25.3.R2

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Platforms	SAR Gen 2

message-fast-tx-init *number*

Synopsis	PDUs to transmit during the fast transmission period
Context	**configure** system lldp message-fast-tx-init *number*
Tree	message-fast-tx-init
Range	1 to 8
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

notification-interval *number*

Synopsis	Minimum interval between change notifications
Context	**configure** system lldp notification-interval *number*
Tree	notification-interval
Range	5 to 3600
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

reinit-delay *number*

Synopsis	Time required before re-initializing LLDP on a port
Context	**configure** system lldp reinit-delay *number*
Tree	reinit-delay
Range	1 to 10
Units	seconds
Default	2
Introduced	25.3.R2
Platforms	SAR Gen 2

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tx-credit-max *number*

Synopsis	Maximum consecutive LLDPDUs that can be transmitted
Context	**configure** system lldp tx-credit-max *number*
Tree	tx-credit-max
Range	1 to 100
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

tx-hold-multiplier *number*

Synopsis	Transmit interval multiplier
Context	**configure** system lldp tx-hold-multiplier *number*
Tree	tx-hold-multiplier
Range	2 to 10
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

tx-interval *number*

Synopsis	LLDP transmit interval
Context	**configure** system lldp tx-interval *number*
Tree	tx-interval
Range	5 to 32768
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

load-balancing

Synopsis	Enter the **load-balancing** context
Context	**configure** system load-balancing

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Tree	load-balancing
Description	Commands in this context configure the interface per-flow load-balancing options that apply to traffic entering this interface and egressing over a LAG or ECMP on system egress. This setting is per interface. Load-balancing options configured at the interface level overwrite load-balancing options configured at the system level.
Introduced	25.3.R2
Platforms	SAR Gen 2

l4-load-balancing *boolean*

Synopsis	Use load balancing based on Layer 4 fields
Context	**configure** system load-balancing l4-load-balancing *boolean*
Tree	l4-load-balancing
Introduced	25.3.R2
Platforms	SAR Gen 2

lsr-load-balancing *keyword*

Synopsis	Algorithm for system-wide LSR load balancing
Context	**configure** system load-balancing lsr-load-balancing *keyword*
Tree	lsr-load-balancing
Description	This command configures system-wide LSR load balancing. Hashing can be enabled on the label stack, IP header, or both. The hashing can be at an LSR for spraying labeled IP packets over multiple equal-cost paths, or over multiple links of a LAG group. The LSR hash routine operates on the label stack and the IP header, if a packet is IPv4. An LSR considers a packet to be IPv4 if the first nibble following the bottom of the label stack is 4. The hash on the label stack and IPv4 and IPv6 headers can be enabled or disabled at the system level or incoming network IP interface level. **lbl-ip-l4-teid** - Specifies that the hashing applies as follows for Layer 2 and Layer 3 encapsulated traffic: • If an IPv4 or IPv6 header is found immediately after the MPLS label stack, the hashing includes label stack, source and destination IP addresses, TCP/UDP port numbers, and, if present, TEID values. • If an IPv4 or IPv6 header is not found immediately after the MPLS label stack, the data plane searches for a valid Ethertype value for the IPv4 and IPv6 payload. If a valid Ethertype value is found and an IP header follows the Ethernet header, hashing includes the source and destination IP addresses, TCP/UDP port numbers, and, if present, TEID values.

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eth-encap-ip - Specifies that the hash algorithm parses down the label stack and after it reaches the bottom, the stack assumes the Ethernet II non-tagged, dot1q, or QinQ header follows. At the expected Ethertype offset location, the algorithm checks whether the value present is IPv4/IPv6 (0x0800/0x86DD). If the check passes, the hash algorithm checks the first nibble at the expected IP header location for IPv4/IPv6 (0x0100/0x0110). If the secondary check passes, the algorithm performs the hash using the IP SA/DA fields in the expected IP header. If any of the checks fail, the label-stack hash is performed.

Options	lbl-only, lbl-ip, ip-only, eth-encap-ip, lbl-ip-l4-teid, lbl-eth-ip-l4-teid, lbl-ip-or-teid
Introduced	25.3.R2
Platforms	SAR Gen 2

service-id-lag-hashing *boolean*

Synopsis	Enable enhanced VLL LAG service ID hashing
Context	**configure** system load-balancing service-id-lag-hashing *boolean*
Tree	service-id-lag-hashing
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

location *description*

Synopsis	Site location of the system
Context	**configure** system location *description*
Tree	location
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

login-control

Synopsis	Enter the **login-control** context
Context	**configure** system login-control
Tree	login-control
Description	Commands in this context configure the session control for console, Telnet, SSH, and FTP sessions.

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(none)

Introduced 25.3.R2

Platforms SAR Gen 2

exponential-backoff *boolean*

Synopsis Enable exponential-backoff of the login prompt

Context **configure** system login-control exponential-backoff *boolean*

Tree exponential-backoff

Description When configured to **true**, the router enables exponential backoff for the login prompt. The **exponential-backoff** command is used to deter dictionary attacks, when a malicious user can gain access to the CLI by using a script to attempt to log in to the admin account with any conceivable password.

(none)

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

ftp

Synopsis Enter the **ftp** context

Context **configure** system login-control ftp

Tree ftp

Description Commands in this context configure FTP login control command options.

(none)

Introduced 25.3.R2

Platforms SAR Gen 2

inbound-max-sessions *number*

Synopsis Maximum number of concurrent inbound FTP sessions

Context **configure** system login-control ftp inbound-max-sessions *number*

Tree inbound-max-sessions

Description This command configures the maximum number of concurrent inbound FTP sessions.

This value is the combined total of inbound and outbound sessions.

(none)

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Range	0 to 5
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *(keyword | number)*

Synopsis	Idle timeout for console, FTP, Telnet, and SSH sessions
Context	**configure** system login-control idle-timeout *(keyword | number)*
Tree	idle-timeout
Range	1 to 1440
Units	minutes
Options	none
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

login-banner *boolean*

Synopsis	Display the SR OS login banner
Context	**configure** system login-control login-banner *boolean*
Tree	login-banner
Description	When configured to **true**, the system displays the SR OS login banner. The login banner contains the SR OS copyright and build date information. **false**, the system only displays the configured pre-login message and the login prompt. (none)
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

login-scripts

Synopsis	Enter the **login-scripts** context
Context	**configure** system login-control login-scripts
Tree	login-scripts

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Description	Commands in this context configure CLI scripts that execute when a user (authenticated via any method including local user database, TACACS+, or RADIUS) first logs into a CLI session. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

global-script *string-not-all-spaces*

Synopsis	URL of the global CLI login script
Context	**configure** system login-control login-scripts global-script *string-not-all-spaces*
Tree	global-script
Description	This command specifies a common CLI script that executes when any user logs into a CLI session. This login exec script is executed when any user (authenticated by any means including local user database, TACACS+, or RADIUS) opens a CLI session. This allows a user, for example, to define a common set of CLI aliases that are made available on the router for all users. This global login exec script is executed before any user-specific login exec files that may be configured. This CLI script executes in the context of the user who opens the CLI session. Any commands in the script that the user is not authorized to execute will fail. (none)
String length	1 to 180
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

per-user-script

Synopsis	Enter the **per-user-script** context
Context	**configure** system login-control login-scripts per-user-script
Tree	per-user-script
Description	Commands in this context allow users to define their own login scripts that can be executed each time they first login to a CLI session. The command executes the script "*file-url / username / file-name*" when the user *username* logs into a CLI session (authenticated by any means including local user database, TACACS+, or RADIUS). For example: per-user user-directory "cf1:/local/users" file-name "login-script.txt" would search for the following script when user "admin" logs in and authenticates via RADIUS:

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cf1:/local/users/admin/login-script.txt

The per user login script is executed after any global script executes and before any login-exec script configured against a local user is executed. This allows users, for example, who are authenticated via TACACS+ or RADIUS to define their own login scripts.

This CLI script executes in the context of the user who opens the CLI session. Any commands in the script that the user is not authorized to execute will fail.

(none)

Introduced 25.3.R2

Platforms SAR Gen 2

file-name *filename*

Synopsis File name of the per-user login script

Context **configure** system login-control login-scripts per-user-script file-name *filename*

Tree file-name

Description This command specifies the name of the file (located in the **configure system login-control login-scripts per-user-script user-directory** directory) including the extension.

(none)

String length 1 to 180

String format 'filename' must not contain / or \\ (no path separators)
'filename' must not be all spaces

Introduced 25.3.R2

Platforms SAR Gen 2

user-directory *string-not-all-spaces*

Synopsis Directory name of user-defined login script

Context **configure** system login-control login-scripts per-user-script user-directory *string-not-all-spaces*

Tree user-directory

String length 1 to 180

String format 'string-not-all-spaces' must contain at least one non-space character

Introduced 25.3.R2

Platforms SAR Gen 2

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motd

Synopsis	Enter the **motd** context
Context	**configure** system login-control motd
Tree	motd
Description	Commands in this context configure the message of the day that is displayed after a successful login. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

text *string-not-all-spaces*

Synopsis	Message of the day displayed after a succesfull login
Context	**configure** system login-control motd text *string-not-all-spaces*
Tree	text
String length	1 to 900
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **text** or **url**.
Introduced	25.3.R2
Platforms	SAR Gen 2

url *string-not-all-spaces*

Synopsis	Location of the message of the day
Context	**configure** system login-control motd url *string-not-all-spaces*
Tree	url
String length	1 to 180
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	The following elements are part of a choice: **text** or **url**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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pre-login-message

Synopsis	Enter the **pre-login-message** context
Context	**configure** system login-control pre-login-message
Tree	pre-login-message
Description	Commands in this context configure a message to display before logging in to the router. Only one message can be configured. If a new pre-login message is configured, the new message overwrites the previous message. The pre-login message is displayed on both active and standby CPMs.
Introduced	25.3.R2
Platforms	SAR Gen 2

message *string-not-all-spaces*

Synopsis	Pre-login message displayed before the login prompt
Context	**configure** system login-control pre-login-message message *string-not-all-spaces*
Tree	message
Description	This command configures the pre-login message. Any printable, 7-bit ASCII characters can be used. If the string contains special characters (#, $, spaces, and so on), the entire string must be enclosed within double quotes. Some special characters can be used to format the message text. Use the newline () character to create multiline messages. A newline () character in the message moves to the beginning of the next line by sending ASCII/UTF-8 characters 0xA (LF) and 0xD (CR) to the client terminal. A carriage return (\r) character in the message sends the ASCII/UTF-8 character 0xD (CR) to the client terminal.
String length	1 to 900
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

name *boolean*

Synopsis	Display the system name after the pre-login message
Context	**configure** system login-control pre-login-message name *boolean*
Tree	name
Description	When configured to **true**, the system displays a space followed by the system name after the pre-login message before the login prompt.

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When configured to **false**, the system only displays the configured pre-login message and the login prompt.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh

Synopsis	Enter the **ssh** context
Context	**configure** system login-control ssh
Tree	ssh
Description	Commands in this context configure the SSH command options. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-shutdown *boolean*

Synopsis	Allow graceful shutdown of SSH sessions
Context	**configure** system login-control ssh graceful-shutdown *boolean*
Tree	graceful-shutdown
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound-max-sessions *number*

Synopsis	Maximum number of concurrent inbound sessions
Context	**configure** system login-control ssh inbound-max-sessions *number*
Tree	inbound-max-sessions
Range	0 to 50
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-channels-per-connection *number*

Synopsis	Maximum number of channels per SSH connection
Context	**configure** system login-control ssh max-channels-per-connection *number*
Tree	max-channels-per-connection
Range	1 to 50
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound-max-sessions *number*

Synopsis	Maximum number of concurrent outbound sessions
Context	**configure** system login-control ssh outbound-max-sessions *number*
Tree	outbound-max-sessions
Description	This command configures the maximum number of outbound Telnet and SSH sessions. The local serial port cannot be disabled. (none)
Range	0 to 15
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-security *number*

Synopsis	Minimum TTL value for incoming packets
Context	**configure** system login-control ssh ttl-security *number*
Tree	ttl-security
Description	This command configures TTL security command options for incoming packets. When the feature is enabled, LDP accepts incoming IP packets from a peer only if the TTL value in the packet is greater than or equal to the minimum TTL value configured for that peer. Per-peer-queueing must be enabled in order for TTL protection to operate. (none)
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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telnet

Synopsis	Enter the **telnet** context
Context	**configure** system login-control telnet
Tree	telnet
Description	Commands in this context configure the Telnet command options. (none)
Introduced	25.3.R2
Platforms	SAR Gen 2

graceful-shutdown *boolean*

Synopsis	Allow graceful shutdown of Telnet sessions
Context	**configure** system login-control telnet graceful-shutdown *boolean*
Tree	graceful-shutdown
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

inbound-max-sessions *number*

Synopsis	Maximum number of concurrent inbound sessions
Context	**configure** system login-control telnet inbound-max-sessions *number*
Tree	inbound-max-sessions
Range	0 to 50
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

outbound-max-sessions *number*

Synopsis	Maximum number of concurrent outbound sessions
Context	**configure** system login-control telnet outbound-max-sessions *number*
Tree	outbound-max-sessions

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Description	This command configures the maximum number of outbound Telnet and SSH sessions. The local serial port cannot be disabled. (none)
Range	0 to 15
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl-security *number*

Synopsis	Minimum TTL value for incoming packets
Context	**configure** system login-control telnet ttl-security *number*
Tree	ttl-security
Description	This command configures TTL security command options for incoming packets. When the feature is enabled, LDP accepts incoming IP packets from a peer only if the TTL value in the packet is greater than or equal to the minimum TTL value configured for that peer. Per-peer-queueing must be enabled in order for TTL protection to operate. (none)
Range	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

management-interface

Synopsis	Enter the **management-interface** context
Context	**configure** system management-interface
Tree	management-interface
Description	Commands in this context configure the capabilities of router management interfaces such as the CLI and NETCONF.
Introduced	25.3.R2
Platforms	SAR Gen 2

cli

Synopsis	Enter the **cli** context
Context	**configure** system management-interface cli

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Tree	cli
Description	Commands in this context configure the CLI management interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

classic-cli

Synopsis	Enter the **classic-cli** context
Context	**configure** system management-interface cli classic-cli
Tree	classic-cli
Description	Commands in this context configure the classic CLI management interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-immediate *boolean*

Synopsis	Allow writable access in classic CLI configure branch
Context	**configure** system management-interface cli classic-cli allow-immediate *boolean*
Tree	allow-immediate
Description	When configured to **true**, this command enables write access in the classic CLI configuration branch without having to use the classic CLI **candidate edit** functionality. When configured to **false**, this command blocks write access and configuration changes in the classic CLI configuration branch, and the classic CLI configuration branch is read-only. This enforces using the classic CLI **candidate edit** functionality, including **candidate commit**, to modify the router configuration, instead of allowing immediate line-by-line configuration changes.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rollback

Synopsis	Enter the **rollback** context
Context	**configure** system management-interface cli classic-cli rollback
Tree	rollback
Description	Commands in this context control classic CLI configuration rollback functionality, such as the maximum number of rollback checkpoints the system maintains. Configuration

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rollback allows the operator to revert to previous router configuration states while minimizing impacts to services.

Introduced	25.3.R2
Platforms	SAR Gen 2

local-checkpoints *number*

Synopsis	Maximum number of rollback files on local storage
Context	**configure** system management-interface cli classic-cli rollback local-checkpoints *number*
Tree	local-checkpoints
Range	1 to 50
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

location *url*

Synopsis	Path and filename prefix for rollback checkpoint files
Context	**configure** system management-interface cli classic-cli rollback location *url*
Tree	location
Description	This command configures the local (for example, compact flash) or remote location and name of the classic CLI rollback checkpoint files. The filename must not contain a suffix. The suffixes for rollback checkpoint files are, for example, .rb, .rb.1, .rb.2, and so on. The suffixes are automatically appended to rollback checkpoint files.
String length	1 to 180
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-checkpoints *number*

Synopsis	Maximum rollback files saved at a remote location
Context	**configure** system management-interface cli classic-cli rollback remote-checkpoints *number*
Tree	remote-checkpoints
Range	1 to 200
Default	10

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Introduced	25.3.R2
Platforms	SAR Gen 2

rescue

Synopsis	Enter the **rescue** context
Context	**configure** system management-interface cli classic-cli rollback rescue
Tree	rescue
Introduced	25.3.R2
Platforms	SAR Gen 2

location *url*

Synopsis	Location of the rescue configuration file
Context	**configure** system management-interface cli classic-cli rollback rescue location *url*
Tree	location
Description	This command configures the local or remote location and filename of the classic CLI rescue configuration file. The suffix (.rc) is automatically appended to the filename when a rescue configuration file is saved. Trivial FTP (TFTP) is not supported for remote locations.
String length	1 to 180
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-engine *keyword*

Synopsis	System-wide CLI engine access
Context	**configure** system management-interface cli cli-engine *keyword*
Tree	cli-engine
Description	This command configures the system-wide CLI engine. The operator can configure one or both engines. For the configuration to take effect, exit the running CLI session and start a new session after committing the new value.
Options	classic-cli, md-cli
Max. instances	2
Notes	This element is ordered by the user.
Introduced	25.3.R2

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Platforms	SAR Gen 2

md-cli

Synopsis	Enter the **md-cli** context
Context	**configure** system management-interface cli md-cli
Tree	md-cli
Description	Commands in this context configure the MD-CLI management interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-config-save *boolean*

Synopsis	Automatically save configuration as part of commit
Context	**configure** system management-interface cli md-cli auto-config-save *boolean*
Tree	auto-config-save
Description	When configured to **true**, the system automatically writes the running configuration to the saved configuration file as part of a successful commit operation.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

environment

Synopsis	Enter the **environment** context
Context	**configure** system management-interface cli md-cli environment
Tree	environment
Introduced	25.3.R2
Platforms	SAR Gen 2

command-alias

Synopsis	Enter the **command-alias** context
Context	**configure** system management-interface cli md-cli environment command-alias
Tree	command-alias

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Introduced	25.3.R2
Platforms	SAR Gen 2

alias [alias-name] *string*

Synopsis	Enter the **alias** list instance
Context	**configure** system management-interface cli md-cli environment command-alias alias *string*
Tree	alias
Description	Commands in this context create aliases to existing MD-CLI commands or to Python applications. Aliases may be mounted for use globally or for selected context paths. Arguments and output modifiers may be provided to aliases at configuration or run time.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**alias-name**] *string*

Synopsis	Alias name
Context	**configure** system management-interface cli md-cli environment command-alias alias *string*
Tree	alias
String length	1 to 64
String format	must only contain alpha-numeric characters, underscore or hyphen (not as the first character)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the alias
Context	**configure** system management-interface cli md-cli environment command-alias alias *string* admin-state *keyword*
Tree	admin-state
Description	This command controls the administrative state of the MD-CLI alias.

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MD-CLI aliases that are administratively disabled cannot be executed, are not displayed in command completion, and do not appear in **?** help.

Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-command *string*

Synopsis	CLI command to run when executing the alias
Context	**configure** system management-interface cli md-cli environment command-alias alias *string* cli-command *string*
Tree	cli-command
String length	1 to 255
Notes	The following elements are part of a mandatory choice: **cli-command** or **python-script**.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *string-not-all-spaces*

Synopsis	Alias description
Context	**configure** system management-interface cli md-cli environment command-alias alias *string* description *string-not-all-spaces*
Tree	description
String length	1 to 110
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

mount-point [path] *(keyword | string)*

Synopsis	Add a list entry for **mount-point**
Context	**configure** system management-interface cli md-cli environment command-alias alias *string* mount-point *(keyword | string)*
Tree	mount-point

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Min. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**path**] *(keyword | string)*

Synopsis	Mount point where the alias is available
Context	**configure** system management-interface cli md-cli environment command-alias alias *string* mount-point *(keyword | string)*
Tree	mount-point
String length	1 to 255
Options	global
String format	must start with forward slash
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

python-script *reference*

Synopsis	Python script to run when executing the alias
Context	**configure** system management-interface cli md-cli environment command-alias alias *string* python-script *reference*
Tree	python-script
Reference	**configure** python python-script *named-item*
Notes	The following elements are part of a mandatory choice: **cli-command** or **python-script**.
Introduced	26.7.R1
Platforms	SAR Gen 2

command-completion

Synopsis	Enter the **command-completion** context
Context	**configure** system management-interface cli md-cli environment command-completion
Tree	command-completion
Introduced	25.3.R2

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Platforms	SAR Gen 2

enter *boolean*

Synopsis	Complete the command when the Enter key is pressed
Context	**configure** system management-interface cli md-cli environment command-completion enter *boolean*
Tree	enter
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

space *boolean*

Synopsis	Complete the command when the Space key is pressed
Context	**configure** system management-interface cli md-cli environment command-completion space *boolean*
Tree	space
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

tab *boolean*

Synopsis	Complete the command when the Tab key is pressed
Context	**configure** system management-interface cli md-cli environment command-completion tab *boolean*
Tree	tab
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

commit-options

Synopsis	Enter the **commit-options** context
Context	**configure** system management-interface cli md-cli environment commit-options

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Tree	commit-options
Introduced	25.3.R2
Platforms	SAR Gen 2

comment *boolean*

Synopsis	Require a commit comment when committing configuration
Context	**configure** system management-interface cli md-cli environment commit-options comment *boolean*
Tree	comment
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

confirm *boolean*

Synopsis	Require confirmed commit when committing configuration
Context	**configure** system management-interface cli md-cli environment commit-options confirm *boolean*
Tree	confirm
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

console

Synopsis	Enter the **console** context
Context	**configure** system management-interface cli md-cli environment console
Tree	console
Introduced	25.3.R2
Platforms	SAR Gen 2

length *number*

Synopsis	Number of lines displayed on the console
Context	**configure** system management-interface cli md-cli environment console length *number*

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Tree	length
Range	24 to 512
Default	24
Introduced	25.3.R2
Platforms	SAR Gen 2

width *number*

Synopsis	Number of columns displayed on the console
Context	**configure** system management-interface cli md-cli environment console width *number*
Tree	width
Range	80 to 512
Default	80
Introduced	25.3.R2
Platforms	SAR Gen 2

history

Synopsis	Enter the **history** context
Context	**configure** system management-interface cli md-cli environment history
Tree	history
Introduced	25.3.R2
Platforms	SAR Gen 2

recall *boolean*

Synopsis	Allow command history recall and search execution
Context	**configure** system management-interface cli md-cli environment history recall *boolean*
Tree	recall
Description	When configured to **true**, the command history recall (**!**), substitution (**!$**), display (**:p**, **Esc+.**), and backward search (**Ctrl-R**) are enabled. When configured to **false**, the command history can be displayed using the **history** command, but commands in the history cannot be executed.
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

size *number*

Synopsis	Command history size
Context	**configure** system management-interface cli md-cli environment history size *number*
Tree	size
Description	This command specifies the maximum size of the command history. A value of 0 disables the command history.
Range	0 to 1000
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

info-output

Synopsis	Enter the **info-output** context
Context	**configure** system management-interface cli md-cli environment info-output
Tree	info-output
Introduced	25.3.R2
Platforms	SAR Gen 2

always-display

Synopsis	Enter the **always-display** context
Context	**configure** system management-interface cli md-cli environment info-output always-display
Tree	always-display
Description	Commands in this context specify elements that are always displayed in the **info** output, regardless of whether the **detail** option is used.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *boolean*

Synopsis	Always display admin-state elements

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Context	**configure** system management-interface cli md-cli environment info-output always-display admin-state *boolean*
Tree	admin-state
Description	When configured to **true**, the values of the **admin-state** elements in **info** output (without the **detail** option) are always displayed, even if they are the default values.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

match-highlight

Synopsis	Enter the **match-highlight** context
Context	**configure** system management-interface cli md-cli environment match-highlight
Tree	match-highlight
Introduced	26.3.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of match highlighting
Context	**configure** system management-interface cli md-cli environment match-highlight admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	SAR Gen 2

style *keyword*

Synopsis	Match highlighting style
Context	**configure** system management-interface cli md-cli environment match-highlight style *keyword*
Tree	style
Options	bold, underline, reverse

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Max. instances	3
Introduced	26.3.R1
Platforms	SAR Gen 2

message-severity-level

Synopsis	Enter the **message-severity-level** context
Context	**configure** system management-interface cli md-cli environment message-severity-level
Tree	message-severity-level
Introduced	25.3.R2
Platforms	SAR Gen 2

cli *keyword*

Synopsis	Message severity threshold for CLI messages
Context	**configure** system management-interface cli md-cli environment message-severity-level cli *keyword*
Tree	cli
Options	warning, info
Default	info
Introduced	25.3.R2
Platforms	SAR Gen 2

more *boolean*

Synopsis	Activate the pager when output is longer than a screen
Context	**configure** system management-interface cli md-cli environment more *boolean*
Tree	more
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

progress-indicator

Synopsis	Enter the **progress-indicator** context

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Context	**configure** system management-interface cli md-cli environment progress-indicator
Tree	progress-indicator
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the progress indicator
Context	**configure** system management-interface cli md-cli environment progress-indicator admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

delay *number*

Synopsis	Delay before the progress indicator is displayed
Context	**configure** system management-interface cli md-cli environment progress-indicator delay *number*
Tree	delay
Range	0 to 10000
Units	milliseconds
Default	1000
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Progress indicator output style
Context	**configure** system management-interface cli md-cli environment progress-indicator type *keyword*
Tree	type
Options	dots
Default	dots

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Introduced	25.3.R2
Platforms	SAR Gen 2

prompt

Synopsis	Enter the **prompt** context
Context	**configure** system management-interface cli md-cli environment prompt
Tree	prompt
Introduced	25.3.R2
Platforms	SAR Gen 2

context *boolean*

Synopsis	Show the current command context in the prompt
Context	**configure** system management-interface cli md-cli environment prompt context *boolean*
Tree	context
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

newline *boolean*

Synopsis	Add a new line before every prompt line
Context	**configure** system management-interface cli md-cli environment prompt newline *boolean*
Tree	newline
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

timestamp *boolean*

Synopsis	Show the timestamp before the first prompt line
Context	**configure** system management-interface cli md-cli environment prompt timestamp *boolean*
Tree	timestamp

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

uncommitted-changes-indicator *boolean*

Synopsis	Show an asterisk (*) when uncommitted changes exist
Context	**configure** system management-interface cli md-cli environment prompt uncommitted-changes-indicator *boolean*
Tree	uncommitted-changes-indicator
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

python

Synopsis	Enter the **python** context
Context	**configure** system management-interface cli md-cli environment python
Tree	python
Description	Commands in this context customize Python settings used with the Python 3 interpreter in MD-CLI applications such as pyexec, command aliases, EHS, and CRON.
Introduced	25.3.R2
Platforms	SAR Gen 2

memory-reservation *number*

Synopsis	Memory reserved per Python interpreter
Context	**configure** system management-interface cli md-cli environment python memory-reservation *number*
Tree	memory-reservation
Range	1 to 500
Units	megabytes
Introduced	25.3.R2
Platforms	SAR Gen 2

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minimum-available-memory *number*

Synopsis	Minimum memory requirement to run a Python interpreter
Context	**configure** system management-interface cli md-cli environment python minimum-available-memory *number*
Tree	minimum-available-memory
Range	5 to 50
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Maximum run time before a Python application is stopped
Context	**configure** system management-interface cli md-cli environment python timeout *number*
Tree	timeout
Range	30 to 86400
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

time-display *keyword*

Synopsis	Time zone to display time
Context	**configure** system management-interface cli md-cli environment time-display *keyword*
Tree	time-display
Description	This command configures the time zone for a timestamp displayed in outputs, such as event logs and **show** commands for the current CLI session. In event logs, the selected time is used to control the timestamps in the CLI output of **show log log-id** and in YANG state in the /state/log/log-id branch (for logs such as session, cli, memory, SNMP, and NETCONF). Also see the **configure log log-id time-format** command.
Options	local, utc
Default	local
Introduced	25.3.R2

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Platforms	SAR Gen 2

time-format *keyword*

Synopsis	Format to display the date and time
Context	**configure** system management-interface cli md-cli environment time-format *keyword*
Tree	time-format
Description	This command specifies the format of the time display in the prompt, configuration, state, and certain **show** command output in the current CLI session.
Options	iso-8601, rfc-1123, rfc-3339
Default	rfc-3339
Introduced	25.3.R2
Platforms	SAR Gen 2

commit-history *number*

Synopsis	Number of commit history IDs to store
Context	**configure** system management-interface commit-history *number*
Tree	commit-history
Description	This command sets the number of IDs to store in the commit history. Setting the value to 0 disables the commit history.
Range	0 to 200
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

commit-management

Synopsis	Enter the **commit-management** context
Context	**configure** system management-interface commit-management
Tree	commit-management
Introduced	25.10.R1
Platforms	SAR Gen 2

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python-scripts

Synopsis	Enter the **python-scripts** context
Context	**configure** system management-interface commit-management python-scripts
Tree	python-scripts
Introduced	25.10.R1
Platforms	SAR Gen 2

gnmi-trigger *boolean*

Synopsis	Trigger commit scripts from gNMI
Context	**configure** system management-interface commit-management python-scripts gnmi-trigger *boolean*
Tree	gnmi-trigger
Default	true
Introduced	25.10.R1
Platforms	SAR Gen 2

md-cli-trigger *boolean*

Synopsis	Trigger commit scripts from the MD-CLI
Context	**configure** system management-interface commit-management python-scripts md-cli-trigger *boolean*
Tree	md-cli-trigger
Default	true
Introduced	25.10.R1
Platforms	SAR Gen 2

netconf-trigger *boolean*

Synopsis	Trigger commit scripts from NETCONF
Context	**configure** system management-interface commit-management python-scripts netconf-trigger *boolean*
Tree	netconf-trigger
Default	true
Introduced	25.10.R1

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Platforms	SAR Gen 2

post-commit-python-script *reference*

Synopsis	Python script to use for the post-commit script
Context	**configure** system management-interface commit-management python-scripts post-commit-python-script *reference*
Tree	post-commit-python-script
Reference	**configure** python python-script *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

pre-commit-python-script *reference*

Synopsis	Python script to use for the pre-commit script
Context	**configure** system management-interface commit-management python-scripts pre-commit-python-script *reference*
Tree	pre-commit-python-script
Reference	**configure** python python-script *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

configuration-mode *keyword*

Synopsis	Management interfaces allowed to edit the configuration
Context	**configure** system management-interface configuration-mode *keyword*
Tree	configuration-mode
Description	This command controls which of the classic or model-driven management interfaces can modify the configuration of the router. Any management interface can be used in any configuration mode (to gather state information or perform operations, for example), but only specific management interfaces (CLI, NETCONF, and so on) are allowed to edit the configuration of the router in different modes. For example, only classic CLI and SNMP can be used to edit the configuration when in classic mode.
Options	classic, model-driven, mixed
Introduced	25.3.R2
Platforms	SAR Gen 2

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configuration-save

Synopsis	Enter the **configuration-save** context
Context	**configure** system management-interface configuration-save
Tree	configuration-save
Description	Commands in this context configure the attributes for saved configuration files.
Introduced	25.3.R2
Platforms	SAR Gen 2

configuration-backups *number*

Synopsis	Maximum number of configuration versions maintained
Context	**configure** system management-interface configuration-save configuration-backups *number*
Tree	configuration-backups
Description	This command configures the maximum number of saved configuration file versions the router maintains. When the configuration is saved, configuration file names are appended with a numeric extension. Each subsequent configuration save creates a new configuration file version with an incremented numeric extension until the maximum count is reached, after which the next configuration save overwrites the oldest file version. Each persistent index file is updated at the same time as the associated configuration file. The system synchronizes the active and standby CPM for all configurations and their associated persistent index files.
Range	1 to 200
Default	50
Introduced	25.3.R2
Platforms	SAR Gen 2

incremental-saves *boolean*

Synopsis	Use incremental saved configuration files
Context	**configure** system management-interface configuration-save incremental-saves *boolean*
Tree	incremental-saves
Description	When configured to **true**, the system saves each commit to the **configure** configuration region in a separate incremental saved configuration file, which allows for faster commits, instead of saving a complete saved configuration file each time.

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Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf

Synopsis	Enter the **netconf** context
Context	**configure** system management-interface netconf
Tree	netconf
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-config-save *boolean*

Synopsis	Automatically save configuration as part of commit
Context	**configure** system management-interface netconf auto-config-save *boolean*
Tree	auto-config-save
Description	When configured to **true**, the system automatically writes the running configuration to the saved configuration file as part of a successful commit operation.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

call-home

Synopsis	Enter the **call-home** context
Context	**configure** system management-interface netconf call-home
Tree	call-home
Description	Commands in this context configure NETCONF Call Home, which enables an SR OS node to trigger a NETCONF client to start a connection.
Introduced	25.3.R2
Platforms	SAR Gen 2

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device-labels

Synopsis	Enter the **device-labels** context
Context	**configure** system management-interface netconf call-home device-labels
Tree	device-labels
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-operating-system *boolean*

Synopsis	Advertise the network operating system
Context	**configure** system management-interface netconf call-home device-labels advertise-operating-system *boolean*
Tree	advertise-operating-system
Description	When configured to **true**, the network operating system is encoded as a NETCONF capability.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-software-version *boolean*

Synopsis	Advertise the software version
Context	**configure** system management-interface netconf call-home device-labels advertise-software-version *boolean*
Tree	advertise-software-version
Description	When configured to **true**, the software version is encoded as a NETCONF capability.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

advertise-system-name *boolean*

Synopsis	Advertise the system name
Context	**configure** system management-interface netconf call-home device-labels advertise-system-name *boolean*

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Tree	advertise-system-name
Description	When configured to **true**, the system name is encoded as a NETCONF capability.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

device-label *string*

Synopsis	Device label
Context	**configure** system management-interface netconf call-home device-labels device-label *string*
Tree	device-label
Description	This command encodes the device label as a NETCONF capability.
String length	1 to 16
String format	'device-label' must contain only letters, digits or underscores
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf-client [name] *named-item*

Synopsis	Enter the **netconf-client** list instance
Context	**configure** system management-interface netconf call-home netconf-client *named-item*
Tree	netconf-client
Description	Commands in this context configure the list of NETCONF clients with which the NETCONF server maintains simultaneous Call Home connections.
Max. instances	10
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Remote NETCONF client name
Context	**configure** system management-interface netconf call-home netconf-client *named-item*
Tree	netconf-client

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the NETCONF Call Home endpoint
Context	**configure** system management-interface netconf call-home netconf-client *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

connection-type *keyword*

Synopsis	Call Home connection type
Context	**configure** system management-interface netconf call-home netconf-client *named-item* connection-type *keyword*
Tree	connection-type
Options	persistent – Enable persistent connection mode
Default	persistent
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-on-boot *number*

Synopsis	Delay for Call Home connections after system boot
Context	**configure** system management-interface netconf call-home netconf-client *named-item* delay-on-boot *number*
Tree	delay-on-boot
Range	1 to 3600
Units	seconds

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Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system management-interface netconf call-home netconf-client *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *number*

Synopsis	NETCONF idle timeout for sessions
Context	**configure** system management-interface netconf call-home netconf-client *named-item* idle-timeout *number*
Tree	idle-timeout
Description	This command configures the idle timeout for sessions. If no messages are received during the configured idle timeout period, the session is terminated.
Range	1 to 10080
Units	minutes
Introduced	26.3.R1
Platforms	SAR Gen 2

remote-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the NETCONF client
Context	**configure** system management-interface netconf call-home netconf-client *named-item* remote-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	remote-address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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remote-port *number*

Synopsis	Port that the NETCONF client is listening on
Context	**configure** system management-interface netconf call-home netconf-client *named-item* remote-port *number*
Tree	remote-port
Range	1 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router instance or VPRN service name
Context	**configure** system management-interface netconf call-home netconf-client *named-item* router-instance *string*
Tree	router-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-server-profile *reference*

Synopsis	TLS server profile used for NETCONF call-home sessions
Context	**configure** system management-interface netconf call-home netconf-client *named-item* tls-server-profile *reference*
Tree	tls-server-profile
Reference	**configure** system security tls server-tls-profile *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

transport *keyword*

Synopsis	Transport type
Context	**configure** system management-interface netconf call-home netconf-client *named-item* transport *keyword*
Tree	transport
Options	ssh – SSH transport type tls – TLS transport type

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Default	ssh
Introduced	25.3.R2
Platforms	SAR Gen 2

capabilities

Synopsis	Enter the **capabilities** context
Context	**configure** system management-interface netconf capabilities
Tree	capabilities
Description	Commands in this context configure explicit capabilities for the NETCONF server.
Introduced	25.3.R2
Platforms	SAR Gen 2

candidate *boolean*

Synopsis	Allow the NETCONF server to access candidate datastore
Context	**configure** system management-interface netconf capabilities candidate *boolean*
Tree	candidate
Description	When configured to **true**, this command allows the SR OS NETCONF server to access the candidate configuration datastore. Configuring this command to **true** also enables using **commit** and **discard-changes**. When **configure system management-interface configuration-mode** is set to **classic**, the candidate capability is disabled, even if this command is configured to **true**. When configured to **false**, this command disables the SR OS NETCONF server from accessing the candidate datastore. If the candidate is disabled, requests that reference the candidate datastore return an error, and when a NETCONF client establishes a new session, the candidate capability is not advertised in the SR OS NETCONF Hello message.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

listen

Synopsis	Enter the **listen** context
Context	**configure** system management-interface netconf listen

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Tree	listen
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of NETCONF server in listen mode
Context	**configure** system management-interface netconf listen admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-on-boot *number*

Synopsis	Delay before NETCONF server is operational after boot
Context	**configure** system management-interface netconf listen delay-on-boot *number*
Tree	delay-on-boot
Description	This command configures the delay timer for NETCONF connections. When the timer expires, NETCONF becomes operational and connections are accepted. This delay prevents automation from managing the system while it is still converging. When no delay is configured, connections are accepted after the system boots and NETCONF becomes operational.
Range	1 to 3600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-timeout *number*

Synopsis	NETCONF idle timeout for sessions
Context	**configure** system management-interface netconf listen idle-timeout *number*
Tree	idle-timeout
Description	This command configures the idle timeout for sessions. If no messages are received during the configured idle timeout period, the session is terminated.

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Range	1 to 10080
Units	minutes
Introduced	26.3.R1
Platforms	SAR Gen 2

port *number*

Synopsis	Port on which NETCONF server listens for connections
Context	**configure** system management-interface netconf listen port *number*
Tree	port
Description	This command specifies the port on which the SR OS NETCONF server listens for new connections. One port can be configured for NETCONF management. The configured port applies to both non-VPRN and VPRN management. New NETCONF connections are able to use the configured port. For NETCONF connections not using VPRN management, active NETCONF connections are not disconnected if the connection port changes. For NETCONF connections are not disconnected if the connection port changes. For NETCONF connections using VPRN management, active NETCONF connections are disconnected if the connection port changes.
Range	22 | 830 | 1024 to 49151
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-server-profile *reference*

Synopsis	TLS server profile used for NETCONF listen sessions
Context	**configure** system management-interface netconf listen tls-server-profile *reference*
Tree	tls-server-profile
Reference	**configure** system security tls server-tls-profile *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

transport *keyword*

Synopsis	Transport type
Context	**configure** system management-interface netconf listen transport *keyword*
Tree	transport

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Options	ssh – SSH transport type tls – TLS transport type
Default	ssh
Introduced	26.7.R1
Platforms	SAR Gen 2

tls-client-identity

Synopsis	Enter the **tls-client-identity** context
Context	**configure** system management-interface netconf tls-client-identity
Tree	tls-client-identity
Description	Commands in this context configure NETCONF client identities used to authenticate client connections over TLS.
Introduced	26.7.R1
Platforms	SAR Gen 2

client [id] *number*

Synopsis	Enter the **client** list instance
Context	**configure** system management-interface netconf tls-client-identity client *number*
Tree	client
Description	Commands in this context configure client identities for NETCONF access, which consist of TLS client certificates mapped to local users in the SR OS database.
Max. instances	16
Introduced	26.7.R1
Platforms	SAR Gen 2

[id] *number*

Synopsis	Client ID
Context	**configure** system management-interface netconf tls-client-identity client *number*
Tree	client
Range	1 to 4294967295
Notes	This element is part of a list key.
Introduced	26.7.R1

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Platforms	SAR Gen 2

fingerprint *key-fingerprint-sha256*

Synopsis	Certificate fingerprint
Context	**configure** system management-interface netconf tls-client-identity client *number* fingerprint *key-fingerprint-sha256*
Tree	fingerprint
Description	This command configures the client certificate fingerprint. The fingerprint string is hashed using SHA-256 and encoded using Base64.
String length	43
String format	'fingerprint' must be Base64 with trimmed padding (43 chars)
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

map-type *keyword*

Synopsis	Mapping method for TLS certificate to username
Context	**configure** system management-interface netconf tls-client-identity client *number* map-type *keyword*
Tree	map-type
Description	This command configures the method used by the router to determine the username in the SR OS database that matches to the client fingerprint in the TLS certificate.
Options	specified – Use the username explicitly configured in the database san-ip-address – Use the client IP address to derive the username
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

user-name *reference*

Synopsis	Username for the provided fingerprint
Context	**configure** system management-interface netconf tls-client-identity client *number* user-name *reference*
Tree	user-name

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Description	This command assigns a username to the fingerprint for NETCONF client identity. This command applies only to client identities configured to use an explicitly configured username in the database.
Reference	**configure** system security user-params local-user user *named-item*
Notes	This element is mandatory.
Introduced	26.7.R1
Platforms	SAR Gen 2

default-client

Synopsis	Enter the **default-client** context
Context	**configure** system management-interface netconf tls-client-identity default-client
Tree	default-client
Description	Commands in this context configure the default NETCONF client identity used when the client fingerprint does not match any entry in the database.
Introduced	26.7.R1
Platforms	SAR Gen 2

user-name *reference*

Synopsis	Default username to use when no fingerprint matches
Context	**configure** system management-interface netconf tls-client-identity default-client user-name *reference*
Tree	user-name
Reference	**configure** system security user-params local-user user *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

operations

Synopsis	Enter the **operations** context
Context	**configure** system management-interface operations
Tree	operations
Description	Commands in this context configure parameters associated with operational commands in model-driven interfaces.
Introduced	25.3.R2

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Platforms	SAR Gen 2

global-timeouts

Synopsis	Enter the **global-timeouts** context
Context	**configure** system management-interface operations global-timeouts
Tree	global-timeouts
Description	Commands in this context configure system timeout parameters for operational commands. Timeout parameters provide default system-level control for various types of operational commands in model-driven interfaces. The timeout values are used when specific execution and retention timeouts are not requested for a specific operation.
Introduced	25.3.R2
Platforms	SAR Gen 2

asynchronous-execution *(number | keyword)*

Synopsis	Timeout for asynchronous operation execution
Context	**configure** system management-interface operations global-timeouts asynchronous-execution *(number | keyword)*
Tree	asynchronous-execution
Description	This command configures the period of time that operations launched as “asynchronous” are allowed to execute before being automatically stopped by the SR OS. An asynchronous operation is not deleted from the system when it is stopped. See the **asynchronous-retention** command. If a specific execution timeout is not included in the request for a particular asynchronous operation, this system-level timeout applies. **Note**: This execution timeout is part of the general global operations infrastructure and is separate and independent from any operation-specific timeouts (for example, the **ping** operation also has its own timeout parameter).
Range	1 to 604800
Units	seconds
Options	never
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

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asynchronous-retention *(number | keyword)*

Synopsis	Timeout for asynchronous operation data retention
Context	**configure** system management-interface operations global-timeouts asynchronous-retention *(number | keyword)*
Tree	asynchronous-retention
Description	This command configures the period of time that data related to operations launched as “asynchronous” is retained in the system. After the retention timeout expires, all information related to the operation is deleted, including any status information and result data. If a specific retention timeout is not included in the request for a particular asynchronous operation, this system-level timeout applies.
Range	1 to 604800
Units	seconds
Options	never
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

synchronous-execution *(number | keyword)*

Synopsis	Timeout for synchronous operation execution
Context	**configure** system management-interface operations global-timeouts synchronous-execution *(number | keyword)*
Tree	synchronous-execution
Description	This command configures the period of time that operations launched as “'synchronous” (the default method for all operations) are allowed to execute before they are automatically stopped, and their associated data is deleted. If a specific execution timeout is not included in the request for a particular synchronous operation, this system-level timeout applies. **Note**: This execution timeout is part of the general global operations infrastructure and is separate and independent from any operation-specific timeouts (for example, the **ping** operation also has its own timeout parameter). **Caution**: If this command is set with a specific time value, MD-CLI operations are subject to the timeout and are interrupted if they execute longer than the time value. This situation can arise because the timeout also applies to operations requested in the MD-CLI interface (for example, **ping**, **file dir**, and so on).
Range	1 to 604800
Units	seconds

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Options	never
Default	never
Introduced	25.3.R2
Platforms	SAR Gen 2

schema-path *url*

Synopsis	Schema path URL
Context	**configure** system management-interface schema-path *url*
Tree	schema-path
Description	This command specifies the schema path where the SR OS YANG modules can be placed by the user before using a <get-schema> request. Nokia recommends that the URL string not exceed 135 characters for the <get-schema> request to work correctly with all schema files. If this command is not configured, the software upgrade process manages the YANG schema files to ensure the schema files are synchronized with the software image on both the primary and standby CPM.
String length	1 to 180
Introduced	25.3.R2
Platforms	SAR Gen 2

snmp

Synopsis	Enter the **snmp** context
Context	**configure** system management-interface snmp
Tree	snmp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the SNMP agent
Context	**configure** system management-interface snmp admin-state *keyword*
Tree	admin-state
Description	This command administratively enables or disables SNMP agent operations. Disabling SNMP does not prevent the agent from sending SNMP notifications to configured SNMP trap destinations.

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In classic and mixed configuration mode, the agent is administratively disabled in the event of a reboot when the processing of the configuration file fails to complete or when an SNMP persistent index file fails while the **bof system persistent-indices** command is set to **true**. This prevents an SNMP-based management system from accessing and possibly synchronizing with a partially booted or incomplete network element. This auto-disable behavior is not applicable to model-driven configuration mode.

Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

engine-id *engine-id-as-string*

Synopsis	SNMP engine ID that identifies the SNMPv3 node
Context	**configure** system management-interface snmp engine-id *engine-id-as-string*
Tree	engine-id
Description	This command sets the SNMP engine ID that uniquely identifies the SNMPv3 node. If unconfigured, the system uses an engine ID based on the information from the system backplane. If the SNMP engine ID is changed, the current configuration must be saved and a reboot must be executed. Otherwise, the previously configured SNMP communities and logger trap-target notify communities will not be valid for the new engine ID. **Note:** Changing the SNMP engine ID invalidates all SNMPv3 MD5 and SHA security digest keys, which may render the node unmanageable. When replacing a chassis, configure the new router to use the same engine ID as the previous router. This preserves SNMPv3 security keys and allows management stations to use their existing authentication keys for the new router. Ensure that the engine ID of each router is unique. A management domain can only maintain one instance of a specific engine ID.
String length	10 to 64
String format	'engine-id-as-string' must be hexadecimal digits only (length 10..64)
Introduced	25.3.R2
Platforms	SAR Gen 2

general-port *number*

Synopsis	Port number used to send general SNMP messages
Context	**configure** system management-interface snmp general-port *number*
Tree	general-port

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Description	This command configures the port number used to receive SNMP request messages and send replies. For the port used for SNMP notifications, configure the **configure log snmp-trap-group trap-target port** command.
Range	0 | 1 to 65535
Default	161
Introduced	25.3.R2
Platforms	SAR Gen 2

max-bulk-duration *number*

Synopsis	Maximum process duration before responses are returned
Context	**configure** system management-interface snmp max-bulk-duration *number*
Tree	max-bulk-duration
Description	This command sets the maximum duration to process an SNMP request before bulk responses are returned to avoid a timeout on the management system when a lot of information is returned in the response.
Range	100 to 5000
Units	milliseconds
Introduced	25.3.R2
Platforms	SAR Gen 2

packet-size *number*

Synopsis	Maximum SNMP packet size generated by the node
Context	**configure** system management-interface snmp packet-size *number*
Tree	packet-size
Range	484 to 9216
Default	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

streaming

Synopsis	Enter the **streaming** context
Context	**configure** system management-interface snmp streaming

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Tree	streaming
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of SNMP streaming
Context	**configure** system management-interface snmp streaming admin-state *keyword*
Tree	admin-state
Description	This command enables or disables the proprietary SNMP request and response bundling as well as the TCP-based transport mechanism for optimizing network management of the router nodes. In higher latency networks, synchronizing router MIBs from network management using streaming takes less time than synchronizing using classic SNMP UDP requests. Streaming operates on TCP port 1491 and runs over IPv4 or IPv6.
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

transport *keyword*

Synopsis	Transport protocol used by the SNMP agent
Context	**configure** system management-interface snmp transport *keyword*
Tree	transport
Options	udp – UDP only tcp – TCP only both – TCP and UDP
Default	udp
Introduced	25.3.R2
Platforms	SAR Gen 2

yang-modules

Synopsis	Enter the **yang-modules** context
Context	**configure** system management-interface yang-modules
Tree	yang-modules

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Description	Commands in this context determine the system support of the Nokia YANG models. The settings affect the data sent in a NETCONF <hello>, data populated in the RFC 6022 /netconf-state/schemas list, data returned in a <get-schema> request, and data populated in the RFC 8525 /yang-library. See "NETCONF monitoring" and "YANG library" in the *7705 SAR Gen 2 System Management Guide* for more information.
Introduced	25.3.R2
Platforms	SAR Gen 2

nmda

Synopsis	Enter the **nmda** context
Context	**configure** system management-interface yang-modules nmda
Tree	nmda
Description	Commands in this context configure the attributes for the Network Management Datastores Architecture (NMDA).
Introduced	25.3.R2
Platforms	SAR Gen 2

nmda-support *boolean*

Synopsis	Advertise NMDA support over NETCONF
Context	**configure** system management-interface yang-modules nmda nmda-support *boolean*
Tree	nmda-support
Description	When configured to **true**, this command enables the advertisement of NMDA support over NETCONF through the use of YANG library 1.1. When configured to **false**, this command disables NMDA advertisement over NETCONF and YANG library 1.0 is used.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-combined-modules *boolean*

Synopsis	Support access to combined Nokia YANG models
Context	**configure** system management-interface yang-modules nokia-combined-modules *boolean*

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Tree	nokia-combined-modules
Description	When configured to **true**, the system supports the combined Nokia YANG files for both configuration and state data in the NETCONF server. When the system is operating in classic configuration mode, attempts to access (read or write) the configuration using the Nokia configuration modules or namespace via NETCONF result in errors, even if this command is set to **true**. When configured to **false**, access to the combined Nokia YANG files is not supported. This command and the **nokia-submodules** command cannot both be set to **true** at the same time.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-submodules *boolean*

Synopsis	Support submodule-based packaging of Nokia YANG models
Context	**configure** system management-interface yang-modules nokia-submodules *boolean*
Tree	nokia-submodules
Description	When configured to **true**, the system supports the alternative submodule-based packaging of the Nokia YANG files for both configuration and state data in the NETCONF server. When the system is operating in classic configuration mode, attempts to access (read or write) the configuration using the Nokia configuration modules or namespace via NETCONF result in errors, even if this command is set to **true**. When configured to **false**, access to the submodule-based packaging of the Nokia YANG files is not supported. This command and the **nokia-combined-module**s command cannot both be set to **true** at the same time.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

name *named-item-64*

Synopsis	Administrative name assigned to the system
Context	**configure** system name *named-item-64*
Tree	name
String length	1 to 64

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String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

network-element-discovery

Synopsis	Enter the **network-element-discovery** context
Context	**configure** system network-element-discovery
Tree	network-element-discovery
Introduced	25.3.R2
Platforms	SAR Gen 2

generate-traps *boolean*

Synopsis	Generate NE discovery traps
Context	**configure** system network-element-discovery generate-traps *boolean*
Tree	generate-traps
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

profile [name] *named-item*

Synopsis	Enter the **profile** list instance
Context	**configure** system network-element-discovery profile *named-item*
Tree	profile
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Profile name
Context	**configure** system network-element-discovery profile *named-item*

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Tree	profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

neid *string*

Synopsis	Network element ID of the advertised node
Context	**configure** system network-element-discovery profile *named-item* neid *string*
Tree	neid
String length	7 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

neip

Synopsis	Enter the **neip** context
Context	**configure** system network-element-discovery profile *named-item* neip
Tree	neip
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-generate

Synopsis	Enter the **auto-generate** context
Context	**configure** system network-element-discovery profile *named-item* neip auto-generate
Tree	auto-generate
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4

Synopsis	Enable the **ipv4** context

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Context	**configure** system network-element-discovery profile *named-item* neip auto-generate ipv4
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-id-value *number*

Synopsis	Most significant byte if the NE IPv4 address
Context	**configure** system network-element-discovery profile *named-item* neip auto-generate ipv4 vendor-id-value *number*
Tree	vendor-id-value
Range	1 to 255
Default	140
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enable the **ipv6** context
Context	**configure** system network-element-discovery profile *named-item* neip auto-generate ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-id-value *number*

Synopsis	Most significant byte of the NE IPv6 address
Context	**configure** system network-element-discovery profile *named-item* neip auto-generate ipv6 vendor-id-value *number*
Tree	vendor-id-value
Range	1 to 255
Default	140
Introduced	25.3.R2
Platforms	SAR Gen 2

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ipv4 *ipv4-unicast-address*

Synopsis	NEIP IPv4 address
Context	**configure** system network-element-discovery profile *named-item* neip ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *ipv6-address*

Synopsis	NEIP IPv6 address
Context	**configure** system network-element-discovery profile *named-item* neip ipv6 *ipv6-address*
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

platform-type *named-item-255*

Synopsis	Platform name and chassis type to be advertised
Context	**configure** system network-element-discovery profile *named-item* platform-type *named-item-255*
Tree	platform-type
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

system-mac *mac-unicast-address-no-zero*

Synopsis	MAC address of the advertised node
Context	**configure** system network-element-discovery profile *named-item* system-mac *mac-unicast-address-no-zero*
Tree	system-mac

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String format	'ieee-address' must be 6 hex byte pairs with ':' or '-' (e.g. 00:11:22:33:44:55)
Introduced	25.3.R2
Platforms	SAR Gen 2

vendor-id *named-item-255*

Synopsis	Vendor ID to be advertised
Context	**configure** system network-element-discovery profile *named-item* vendor-id *named-item-255*
Tree	vendor-id
String length	1 to 255
Default	Nokia
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ospf-dynamic-hostnames *boolean*

Synopsis	Process received OSPF dynamic hostname information
Context	**configure** system ospf-dynamic-hostnames *boolean*
Tree	ospf-dynamic-hostnames
Description	When configured to **true**, OSPF dynamic hostnames are enabled. The router receiving the new dynamic hostname within the OSPF Router Information (RI) LSA is instructed to process the received dynamic hostname information. When configured to **false**, dynamic hostname information is not processed.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

persistence

Synopsis	Enter the **persistence** context
Context	**configure** system persistence
Tree	persistence
Description	Commands in this context configure persistence on the system.

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The persistence feature enables the system to retain state information learned through DHCP snooping across reboots. This information includes data such as the IP address and MAC binding information, lease-length information, and ingress SAP information (required for VPLS snooping to identify the ingress interface).

If persistence is enabled when there are no DHCP relay or snooping commands enabled, the system creates an empty file.

Introduced	25.3.R2
Platforms	SAR Gen 2

ancp

Synopsis	Enter the **ancp** context
Context	**configure** system persistence ancp
Tree	ancp
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system persistence ancp description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

location *keyword*

Synopsis	CPM flash card where the information is stored
Context	**configure** system persistence ancp location *keyword*
Tree	location
Options	cf1, cf2, cf3
Introduced	25.3.R2
Platforms	SAR Gen 2

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dhcp-server

Synopsis	Enter the **dhcp-server** context
Context	**configure** system persistence dhcp-server
Tree	dhcp-server
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system persistence dhcp-server description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

location *keyword*

Synopsis	CPM flash card where the information is stored
Context	**configure** system persistence dhcp-server location *keyword*
Tree	location
Options	cf1, cf2, cf3
Introduced	25.3.R2
Platforms	SAR Gen 2

nat-port-forwarding

Synopsis	Enter the **nat-port-forwarding** context
Context	**configure** system persistence nat-port-forwarding
Tree	nat-port-forwarding
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** system persistence nat-port-forwarding description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

location *keyword*

Synopsis	CPM flash card where the information is stored
Context	**configure** system persistence nat-port-forwarding location *keyword*
Tree	location
Options	cf1, cf2, cf3
Introduced	25.3.R2
Platforms	SAR Gen 2

ptp

Synopsis	Enter the **ptp** context
Context	**configure** system ptp
Tree	ptp
Description	Commands in this context configure PTP command options based on IEEE 1588-2008, Precision Time Protocol. The context is only supported on control assemblies that support 1588.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of PTP
Context	**configure** system ptp admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

alternate-profile [name] *named-item-64*

Synopsis	Enter the **alternate-profile** list instance
Context	**configure** system ptp alternate-profile *named-item-64*
Tree	alternate-profile
Description	Commands in this context create an alternate profile configuration for use in PTP messaging. The alternate profile can be used at the edge of a network to provide PTP time or frequency distribution outward to external PTP clocks. The alternate profile cannot be deleted if it is configured as the profile under a PTP port.
Max. instances	6
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**name**] *named-item-64*

Synopsis	Alternate profile name
Context	**configure** system ptp alternate-profile *named-item-64*
Tree	alternate-profile
Description	This command configures an alternate profile name. The strings "Primary" and "primary" cannot be used for the alternate-profile name.
String length	1 to 64
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the alternate PTP profile

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Context	**configure** system ptp alternate-profile *named-item-64* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

domain *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Alternate profile PTP domain number
Context	**configure** system ptp alternate-profile *named-item-64* domain *number*
Tree	domain
Range	0 to 255
Default	24
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

log-announce-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PTP announce message interval in log form
Context	**configure** system ptp alternate-profile *named-item-64* log-announce-interval *number*
Tree	log-announce-interval
Description	This command configures the announce message interval used for multicast messages within the alternate profile. For multicast messages used on PTP Ethernet ports, this command configures the message interval used for announce messages transmitted by the local node. This value has no impact on the interval used for the BTCA, which is controlled by the value defined for the primary profile.
Range	-3 to 4

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Default	-3
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

profile *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Standard based profile used within an alternate profile
Context	**configure** system ptp alternate-profile *named-item-64* profile *keyword*
Tree	profile
Description	This command specifies the standard based profile that is used as the basis for the alternate profile. This setting controls the contents of PTP messages sent on ports and peers using this alternate profile.
Options	g8265dot1-2010 – ITU-T G.8265.1 specification ieee1588-2008 – 2008 version of IEEE 1588 standard g8275dot1-2014 – 2014 version of ITU-T G.8275.1 specification g8275dot2-2016 – 2016 version of ITU-T G.8275.2 specification iec-61850-9-3-2016 – 2016 version of IEC/IEEE 61850-9-3 standard c37dot238-2017 – 2017 version of C37.238 specification
Default	g8275dot1-2014
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

announce-receipt-timeout *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Expired intervals count before timeout event declared
Context	**configure** system ptp announce-receipt-timeout *number*
Tree	announce-receipt-timeout
Description	This command configures the number of Announce message intervals that must expire with no received Announce messages before declaring an ANNOUNCE_RECEIPT_ TIMEOUT event.

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Range	2 to 10
Default	3
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

clock-type *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Clock type
Context	**configure** system ptp clock-type *keyword*
Tree	clock-type
Options	slave-only, master-only, boundary
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

domain *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PTP domain
Context	**configure** system ptp domain *number*
Tree	domain
Description	This command configures the PTP domain. The default and valid range of the domain depend on the configured PTP profile. • IEEE 1588-2008 - domain range of 0 to 255 (default 0) • G.8265.1 - domain range of 0 to 255 (default 4) • G.8275.1 - domain range of 24 to 43 (default 24) • G.8275.2 - domain range of 0 to 255 (default 44) • IEC/IEEE 61850-9-3 - domain range of 0 to 255 (default 0)

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- C37.238 - domain range of 0 to 255 (default 254)

Range	0 to 255
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

initial-time-inaccuracy *number*

Synopsis	Total time inaccuracy from grandmaster to local clock
Context	**configure** system ptp initial-time-inaccuracy *number*
Tree	initial-time-inaccuracy
Description	This command configures the time inaccuracy value, representing the total time inaccuracy from the grandmaster clock to the parent clock. This value is added to the mandatory IEEE_C37_238 TLV. This command is applicable only when the alternate profile is configured as **c37dot238-2017**.
Range	0 to 10000000
Units	nanoseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

local-priority *number*

Synopsis	PTP clock local priority
Context	**configure** system ptp local-priority *number*
Tree	local-priority
Description	This command configures the local priority used to choose between PTP time Transmitters in the best timeTransmitter clock algorithm (BTCA). This setting applies when the PTP profile is either configured for G.8275.1 or G.8275.2 and is ignored for any other profile. For G.8275.1 or G.8275.2, this command configures the localPriority command option associated with the local clock (**ptp** context). See the ITU-T G.8275.1 or G.8275.2 standard for detailed information.
Range	1 to 255
Default	128
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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log-announce-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Announce message interval in log form
Context	**configure** system ptp log-announce-interval *number*
Tree	log-announce-interval
Description	This command configures the Announce message interval used for both unicast and multicast messages. For unicast messages, the Announce message interval is requested during unicast negotiation to any peer. This controls the Announce message rate sent from remote peers to the local node. It does not affect the announce message rate that may be sent from the local node to remote peers. Remote peers may request an Announce message rate within the acceptable grant range. For multicast messages used on PTP Ethernet ports, this command specifies the message interval used for Announce messages transmitted by the local node. This value also defines the interval between executions of the BTCA within the node. To minimize BTCA-driven reconfigurations, IEEE recommends that the Announce interval should be consistent across the entire 1588 network.
Range	-3 to 4
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

max-steps-removed *number*

Synopsis	Threshold for steps removed in Announce messages
Context	**configure** system ptp max-steps-removed *number*
Tree	max-steps-removed
Description	This command configures a maximum limit for the stepsRemoved field in PTP Announce messages. When a user configures a value for the maximum steps removed, the PTP clock disqualifies and drops any incoming Announce messages where the stepsRemoved field in the PTP header is equal to or greater than the configured maximum steps removed value. This command effectively limits the maximum number of hops a potential parent clock can be from the GM clock. This command is crucial for maintaining the integrity and performance of the PTP synchronized network by preventing clocks that are too far removed from the GM from being selected as parent clocks.
Range	1 to 255

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Default	255
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

network-type *keyword*

Synopsis	PTP network type
Context	**configure** system ptp network-type *keyword*
Tree	network-type
Description	This command configures the codeset to be used for the encoding of QL values into PTP clockClass values and vice versa when the profile is configured for G.8265.1 or G.8275.2. This setting only applies to the range of values observed in the clockClass values transmitted out of the node in Announce messages. The router supports the reception of any valid value in Table 1/G.8265.1 and Table2/G.8275.2.
Options	sonet, sdh
Default	sdh
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

port [port-id] *reference*

Synopsis	Enter the **port** list instance
Context	**configure** system ptp port *reference*
Tree	port
Description	Commands in this context configure PTP over Ethernet on the physical port. The PTP process transmits and receives PTP messages through the port using Ethernet encapsulation (as opposed to UDP/IPv4 encapsulation). Frames are transmitted with no VLAN tags, even if the port is configured for dot1q or qinq modes for encap-type. The received frames from the external PTP clock must also be untagged. Two reserved multicast addresses are allocated for PTP messages (see Annex F IEEE Std 1588-2008). Either address can be configured for the PTP messages sent through the port. A PTP port cannot be created if the PTP profile is configured for G.8265.1. If the port supports 1588 port-based timestamping, Synchronous Ethernet must be enabled on the MDA when PTP over Ethernet is enabled. De-provisioning of the card or MDA containing the specified port is not permitted while the port is configured within PTP.

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Changing the encapsulation or the port type of the Ethernet port is not permitted when PTP Ethernet Multicast operation is configured on the port.

To allocate an Ethernet satellite client port as a PTP port, the Ethernet satellite must first be enabled for the transparent clock function. For more information, see the **configure satellite ethernet-satellite ptp-tc** command.

The SyncE/1588 ports of the CPM and CCMs can be specified as PTP ports. These use the ‘A/3’ and ‘B/3’ designation and both must be specified as two PTP ports if both are used. The active CPM sends and receives messages on both ports if they are specified and enabled.

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

[**port-id**] *reference*

Synopsis Ethernet PTP port ID

Context **configure** system ptp port *reference*

Tree port

Reference **configure** port *port*

Notes This element is part of a list key.

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

address *mac-address*

Synopsis Destination MAC address of the transmitted PTP messages

Context **configure** system ptp port *reference* address *mac-address*

Tree address

Description This command specifies the destination MAC address of the transmitted PTP messages. IEEE Std 1588-2008 Annex F defines two reserved addresses for 1588 messages, which include:

- **01-1B-19-00-00-00** — all except the peer delay mechanism messages
- **01-80-C2-00-00-0E** — peer delay mechanism messages

Both addresses are supported for reception, independent of the address configured by this command.

Default 01:1B:19:00:00:00

Introduced 26.3.R1

Platforms 7705 SAR-Hx, 7705 SAR-Mx

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admin-state *keyword*

Synopsis	Administrative state of the PTP port
Context	**configure** system ptp port *reference* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

alternate-profile *reference*

Synopsis	Alternate profile for the PTP port
Context	**configure** system ptp port *reference* alternate-profile *reference*
Tree	alternate-profile
Description	This command creates the alternate profile that is used in communications with the port or peer. If no alternate profile is specified, the primary profile is used.
Reference	**configure** system ptp alternate-profile *named-item-64*
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

local-priority *number*

Synopsis	PTP port local priority
Context	**configure** system ptp port *reference* local-priority *number*
Tree	local-priority
Description	This command configures the local priority used to choose between PTP time Transmitters in the best timeTransmitter clock algorithm (BTCA). This setting applies when the PTP profile is either configured for G.8275.1 or G.8275.2 and is ignored for any other profile. For G.8275.1 or G.8275.2, this command configures the localPriority parameter associated with the Announce messages received from the external clocks (**ptp port** context). See G.8275.1 or G.8275.2 for detailed information.
Range	1 to 255
Default	128
Introduced	26.3.R1

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Platforms	7705 SAR-Hx, 7705 SAR-Mx

log-delay-interval *number*

Synopsis	Minimum interval for Delay_Req messages in log form
Context	**configure** system ptp port *reference* log-delay-interval *number*
Tree	log-delay-interval
Description	This command configures the minimum interval used for multicast Delay_Req messages for the port. For ports in a slave state, the interval is used, unless the parent port indicates a longer interval. For a port in master state, the interval is advertised to external slave ports as the minimum acceptable interval for Delay_Req messages from the slave ports. The router supports the 1588 standard requirement for a port in slave state to check the logMessageInterval field of received multicast Delay_Resp messages. If the value of the logMessageInterval field of the messages is greater than the value configured locally for the generation of Delay_Req messages, the slave must use the longer interval for the generation of Delay_Req messages. The interval value is specified as the logarithm to the base 2.
Range	-6 to 0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

log-sync-interval *number*

Synopsis	Interval for transmission of Sync messages in log form
Context	**configure** system ptp port *reference* log-sync-interval *number*
Tree	log-sync-interval
Description	This command configures the interval used for Sync messages transmitted by the local node when the port is in master state. The interval value is specified as the logarithm to the base 2.
Range	-6 to 0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

master-only *boolean*

Synopsis	Restrict the local port to master state
Context	**configure** system ptp port *reference* master-only *boolean*

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Tree	master-only
Description	When configured to **true**, the local port is restricted to master state only, ensuring that the system does not obtain synchronization from attached external devices. This command is supported only when the PTP profile is set for G.8275.1 or G.8275.2.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

monitor-receiver *boolean*

Synopsis	Enable the PTP port as a monitor-receiver
Context	**configure** system ptp port *reference* monitor-receiver *boolean*
Tree	monitor-receiver
Description	When configured to **true**, the router enables the PTP port as a monitorReceiver for PTP. When not in TimeReceiver mode, the PTP port runs a time-recovery engine for PTP monitoring. This object is supported only when the PTP profile is set to G.8275.1 or G.8275.2. When configured to **false**, monitoring is disabled.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

monitor-sender *boolean*

Synopsis	Enable the PTP port as a monitor-sender
Context	**configure** system ptp port *reference* monitor-sender *boolean*
Tree	monitor-sender
Description	When configured to **true**, the router enables the PTP port as a monitorSender for PTP. When not in TimeTransmitter mode, the PTP port sends Announce, Sync, and Delay_ Resp messages with the alternateMasterFlag set to TRUE for PTP monitoring at the remote clock. This object is supported only when the PTP profile is set to G.8275.1 or G.8275.2. When configured to **false**, monitoring is disabled.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

not-master *boolean*

Synopsis	Block PTP port from entering the timeTransmitter state

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Context	**configure** system ptp port *reference* not-master *boolean*
Tree	not-master
Description	When configured to **true**, the router blocks the port from entering the timeTransmitter state.
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

priority1 *number*

Synopsis	Priority1 of the local clock
Context	**configure** system ptp priority1 *number*
Tree	priority1
Description	This command configures the priority1 parameter of the local clock. The setting is used when the profile is configured for IEEE 1588-2008. This value is used by the Best Master Clock Algorithm to determine which clock should provide timing for the network and is advertised in Announce messages.
Range	0 to 255
Default	128
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

priority2 *number*

Synopsis	Priority2 of the local clock
Context	**configure** system ptp priority2 *number*
Tree	priority2
Description	This command configures the priority2 parameter of the local clock. The setting is used when the profile is configured for IEEE 1588-2008, G.8275.1, or G.8275.2. This value is used by the Best Master Clock algorithm to determine which clock should provide timing for the network and is advertised in Announce messages.
Range	0 to 255
Default	128
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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profile *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	PTP profile
Context	**configure** system ptp profile *keyword*
Tree	profile
Description	This command configures the profile to be used for the internal PTP clock. It defines the Best timeTransmitter Clock Algorithm (BTCA) behavior. Profile changes may affect the settings of other configuration elements, such as the clock type and default settings for the delay interval, announce interval, and the Sync interval. The following clock types are supported for the indicated profiles: • G.8265.1: slave only, master only • IEEE 1588 2008: slave only, master only, boundary • G.8275.1: slave only, boundary, master only (master only, only if the platform includes an embedded GNSS receiver) • G.8275.2: slave only, boundary, master only (master only, only if the platform includes an embedded GNSS receiver) • IEC/IEEE 61850-9-3: slave only, master only, boundary • C37.238: slave only, master only, boundary
Options	g8265dot1-2010 – ITU-T G.8265.1 specification ieee1588-2008 – 2008 version of IEEE 1588 standard g8275dot1-2014 – 2014 version of ITU-T G.8275.1 specification g8275dot2-2016 – 2016 version of ITU-T G.8275.2 specification iec-61850-9-3-2016 – 2016 version of IEC/IEEE 61850-9-3 standard c37dot238-2017 – 2017 version of C37.238 specification
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

ptsf

Synopsis	Enter the **ptsf** context
Context	**configure** system ptp ptsf

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Tree	ptsf
Description	Commands in this context configure the attributes of Packet Timing Signal Fail (PTSF).
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

monitor-ptsf-unusable

Synopsis	Enter the **monitor-ptsf-unusable** context
Context	**configure** system ptp ptsf monitor-ptsf-unusable
Tree	monitor-ptsf-unusable
Description	Commands in this context configure monitoring of neighbor clocks for the PTSF-unusable state (condition) when the profile is set to g8275dot1-2014. When administratively enabled, the local clock monitors the noise level of PTP event messages between external neighbor PTP ports and the local clock. If it detects a high variation in the network path between the external neighbor port and the local port, it considers the neighbor port unusable. Announce messages from the neighbor are discarded and excluded from the BTCA and the port cannot be selected as the parent clock. The unusable condition must be manually cleared. When administratively disabled, the monitor PTSF function of the PTP clock clears PTSF-unusable states from all neighbor PTP ports. If no PTP messages are received from a neighbor for 15 minutes, the neighbor information is purged and the PTSF-unusable state is cleared.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of PTSF unusable monitoring
Context	**configure** system ptp ptsf monitor-ptsf-unusable admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

router [router-instance] *string*

Synopsis	Enter the **router** list instance

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Context	**configure** system ptp router *string*
Tree	router
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

[**router-instance**] *string*

Synopsis	Router name or VPRN service name
Context	**configure** system ptp router *string*
Tree	router
MD-CLI default	Base
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of PTP on the router instance
Context	**configure** system ptp router *string* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **peer** list instance
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Description	Commands in this context configure a remote PTP peer.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the remote PTP peer
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	peer
Description	This command specifies the IP address of the remote PTP peer.
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

admin-state *keyword*

Synopsis	Administrative state of the PTP peer
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

local-priority *number*

Synopsis	PTP peer local priority
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)* local-priority *number*
Tree	local-priority
Description	This command configures the local priority for the peer, which is used to choose between PTP timeTransmitters in the best timeTransmitter clock algorithm (BTCA). This setting applies when the PTP profile is configured for G.8265.1, G.8275.1, or G.8275.2 and is ignored for any other profile. For G.8265.1, this command configures the priority used to choose between time Transmitter clocks with the same quality (see G.8265.1 for more details). For G.8275.1 or G.8275.2, this command configures the localPriority parameter associated with the Announce messages received from the external clocks (**ptp router peer** context). See G.8275.1 or G.8275.2 for detailed information.
Range	1 to 255

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Default	128
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

log-sync-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	PTP peer interval for Sync messages in log form
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)* log-sync-interval *number*
Tree	log-sync-interval
Description	This command configures the message interval used for Sync and Delay_Resp messages that are requested during unicast negotiation to the peer. The setting controls messages sent from remote peers to the local node but the packet rate from the local node to remote peers is not affected. Remote peers may request a packet rate within the acceptable range. The interval value is specified as the logarithm to the base 2.
Range	-6 to 0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

monitor-receiver *boolean*

Synopsis	Enable the PTP peer as a monitor-receiver
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)* monitor-receiver *boolean*
Tree	monitor-receiver
Description	When configured to **true**, the router enables the PTP peer as a monitorReceiver for PTP. When not in TimeReceiver mode, the PTP port runs a time-recovery engine for PTP monitoring. This object is only supported when the PTP profile is set to G.8275.1 or G.8275.2. When configured to **false**, monitoring is disabled.
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

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not-master *boolean*

Synopsis	Block PTP port from entering the timeTransmitter state
Context	**configure** system ptp router *string* peer *(ipv4-address-no-zone | ipv6-address-no-zone)* not-master *boolean*
Tree	not-master
Description	When configured to **true**, the router blocks the port associated with the peer from entering the timeTransmitter state.
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

peer-limit *number*

Synopsis	Number of discovered peers allowed for routing instance
Context	**configure** system ptp router *string* peer-limit *number*
Tree	peer-limit
Description	This command specifies the maximum number of discovered peers permitted within the routing instance. This ensures that a routing instance does not consume all the possible discovered peers and prevents the routing instance from blocking discovered peers in other routing instances. The sum of all peer limit values for all routing instances cannot exceed the maximum number of discovered peers supported by the system.
Range	0 to 1600
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

time-inaccuracy *number*

Synopsis	Time inaccuracy value override
Context	**configure** system ptp time-inaccuracy *number*
Tree	time-inaccuracy
Description	This command overrides the system-generated time inaccuracy value for the PTP clock with a specified value. The clock's time inaccuracy value is added to the total time inaccuracy value in IEEE_C37_238 TLVs sent to downstream clocks in Announce messages. This command is applicable only for boundary clocks and only when the profile is configured as **c37dot238-2017**.

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Range	0 to 10000000
Units	nanoseconds
Default	0
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tx-path-trace *boolean*

Synopsis	Include PATH TRACE TLV in Announce messages
Context	**configure** system ptp tx-path-trace *boolean*
Tree	tx-path-trace
Default	false
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

tx-while-sync-uncertain *boolean*

Synopsis	Send Announce messages while clock is unsynchronized
Context	**configure** system ptp tx-while-sync-uncertain *boolean*
Tree	tx-while-sync-uncertain
Description	When configured to **true**, the local PTP clock transmits Announce messages to downstream clocks to indicate it has not yet stabilized on the recovered synchronization source (upstream clocks or GM clock). While the PTP clock is unsynchronized, the Sync Uncertain state is true. When configured to **false**, the local PTP clock does not send Announce messages to downstream clocks to indicate it is not synchronized to a valid timing source. If the Sync Uncertain state of the clock is true while this command is configured to **false**, unicast negotiation grant requests are not granted and current grants are canceled.
Default	true
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

within-holdover-spec-timer *number*

Synopsis	Duration for local clock to specify the holdover state
Context	**configure** system ptp within-holdover-spec-timer *number*
Tree	within-holdover-spec-timer

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Description	This command configures the duration for which the local clock sets its clock class to a value that indicates it is in holdover, within specification, following the loss of the primary reference time source.
Range	0 to 3600
Units	seconds
Default	600
Introduced	26.3.R1
Platforms	7705 SAR-Hx, 7705 SAR-Mx

script-control

Synopsis	Enter the **script-control** context
Context	**configure** system script-control
Tree	script-control
Introduced	25.3.R2
Platforms	SAR Gen 2

script [script-name] *named-item* owner *named-item*

Synopsis	Enter the **script** list instance
Context	**configure** system script-control script *named-item* owner *named-item*
Tree	script
Max. instances	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**script-name**] *named-item*

Synopsis	Script name
Context	**configure** system script-control script *named-item* owner *named-item*
Tree	script
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

owner *named-item*

Synopsis	Script owner
Context	**configure** system script-control script *named-item* owner *named-item*
Tree	script
Description	This command configures the owner to be associated with the script. The owner is optional and "TiMOS CLI" is used if an owner is not specified. The owner is an arbitrary name and not necessarily a user name. Commands in the scripts are not authorized against the owner. The **configure system security cli-script authorization** x **cli-user** command determines the user context against which commands in the scripts are authorized.
String length	1 to 32
MD-CLI default	TiMOS CLI
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the script
Context	**configure** system script-control script *named-item* owner *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system script-control script *named-item* owner *named-item* description *description*

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Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

location *string-not-all-spaces*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Script location
Context	**configure** system script-control script *named-item* owner *named-item* location *string-not-all-spaces*
Tree	location
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

script-policy [policy-name] *named-item* owner *named-item*

Synopsis	Enter the **script-policy** list instance
Context	**configure** system script-control script-policy *named-item* owner *named-item*
Tree	script-policy
Max. instances	1500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *named-item*

Synopsis	Script policy name
Context	**configure** system script-control script-policy *named-item* owner *named-item*
Tree	script-policy

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *named-item*

Synopsis	Script policy owner
Context	**configure** system script-control script-policy *named-item* owner *named-item*
Tree	script-policy
Description	This command configures the owner to be associated with the script policy. The owner is optional and "TiMOS CLI" is used if an owner is not specified. The owner is an arbitrary name and not necessarily a user name. Commands in the scripts are not authorized against the owner. The **configure system security cli-script authorization** x **cli-user** command determines the user context against which commands in the scripts are authorized.
String length	1 to 32
MD-CLI default	TiMOS CLI
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the script policy
Context	**configure** system script-control script-policy *named-item* owner *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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expire-time *(number | keyword)*

Synopsis	Maximum amount of time to keep a run history status
Context	**configure** system script-control script-policy *named-item* owner *named-item* expire-time *(number | keyword)*
Tree	expire-time
Range	0 to 21474836
Units	seconds
Options	forever
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

lifetime *(number | keyword)*

Synopsis	Maximum amount of time the script may run
Context	**configure** system script-control script-policy *named-item* owner *named-item* lifetime *(number | keyword)*
Tree	lifetime
Range	0 to 21474836
Units	seconds
Options	forever
Default	3600
Notes	The following elements are part of a choice: (**lifetime** and **script**) or (**python-lifetime** and **python-script**).
Introduced	25.3.R2
Platforms	SAR Gen 2

lock-override *boolean*

Synopsis	Allow EHS/CRON script to break database explicit lock
Context	**configure** system script-control script-policy *named-item* owner *named-item* lock-override *boolean*
Tree	lock-override
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

max-completed *number*

Synopsis	Maximum number of script history status entries kept
Context	**configure** system script-control script-policy *named-item* owner *named-item* max-completed *number*
Tree	max-completed
Range	1 to 1500
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

python-lifetime *number*

Synopsis	Maximum time the Python application can run
Context	**configure** system script-control script-policy *named-item* owner *named-item* python-lifetime *number*
Tree	python-lifetime
Range	30 to 86400
Units	seconds
Notes	The following elements are part of a choice: (**lifetime** and **script**) or (**python-lifetime** and **python-script**).
Introduced	25.3.R2
Platforms	SAR Gen 2

python-script

Synopsis	Enter the **python-script** context
Context	**configure** system script-control script-policy *named-item* owner *named-item* python-script
Tree	python-script
Notes	The following elements are part of a choice: (**lifetime** and **script**) or (**python-lifetime** and **python-script**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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name *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Python application name
Context	**configure** system script-control script-policy *named-item* owner *named-item* python-script name *reference*
Tree	name
Reference	**configure** python python-script *named-item*
Introduced	26.7.R1
Platforms	SAR Gen 2

results *string-not-all-spaces*

Synopsis	Location to receive CLI output of a script run
Context	**configure** system script-control script-policy *named-item* owner *named-item* results *string-not-all-spaces*
Tree	results
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

script

Synopsis	Enter the **script** context
Context	**configure** system script-control script-policy *named-item* owner *named-item* script
Tree	script
Notes	The following elements are part of a choice: (**lifetime** and **script**) or (**python-lifetime** and **python-script**).
Introduced	25.3.R2
Platforms	SAR Gen 2

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name *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Script name
Context	**configure** system script-control script-policy *named-item* owner *named-item* script name *named-item*
Tree	name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *named-item*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Script owner
Context	**configure** system script-control script-policy *named-item* owner *named-item* script owner *named-item*
Tree	owner
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

security

Synopsis	Enter the **security** context
Context	**configure** system security
Tree	security
Description	Commands in this context configure the central security settings, such as DDoS protection, users, authorization profiles, and certificates.

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	Access to these commands should be restricted to highly trusted users and device administrators.
Introduced	25.3.R2
Platforms	SAR Gen 2

aaa

Synopsis	Enter the **aaa** context
Context	**configure** system security aaa
Tree	aaa
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-session-group [cli-session-group-name] *named-item*

Synopsis	Enter the **cli-session-group** list instance
Context	**configure** system security aaa cli-session-group *named-item*
Tree	cli-session-group
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cli-session-group-name**] *named-item*

Synopsis	CLI session group name
Context	**configure** system security aaa cli-session-group *named-item*
Tree	cli-session-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'cli-session-group-name' must not contain spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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combined-max-sessions *number*

Synopsis	Maximum number of concurrent SSH and Telnet sessions
Context	**configure** system security aaa cli-session-group *named-item* combined-max-sessions *number*
Tree	combined-max-sessions
Range	0 to 50
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security aaa cli-session-group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh-max-sessions *number*

Synopsis	Maximum number of concurrent SSH sessions
Context	**configure** system security aaa cli-session-group *named-item* ssh-max-sessions *number*
Tree	ssh-max-sessions
Range	0 to 50
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-max-sessions *number*

Synopsis	Maximum number of concurrent Telnet sessions
Context	**configure** system security aaa cli-session-group *named-item* telnet-max-sessions *number*
Tree	telnet-max-sessions
Range	0 to 50

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Introduced	25.3.R2
Platforms	SAR Gen 2

health-check *(number | keyword)*

Synopsis	Polling interval of LDAP, RADIUS, and TACACS+ servers
Context	**configure** system security aaa health-check *(number | keyword)*
Tree	health-check
Description	This command configures the polling interval for health check monitoring of the LDAP, RADIUS, and TACACS+ servers. The servers send requests at regular intervals. If a response is not received, the operational status of the server is changed to down. The operational status is changed to up when responses are received. When RADIUS over TLS is configured, Status-Server packets are sent at 30-second intervals as specified in RFC 3539, regardless of whether health checks are enabled. When this command is configured to **none**, health check monitoring of LDAP, RADIUS, and TACACS+ servers is disabled and the operational status for the server is up if a response to the last request was received.
Range	6 to 1500
Units	seconds
Options	none
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

local-profiles

Synopsis	Enter the **local-profiles** context
Context	**configure** system security aaa local-profiles
Tree	local-profiles
Introduced	25.3.R2
Platforms	SAR Gen 2

profile [user-profile-name] *named-item*

Synopsis	Enter the **profile** list instance
Context	**configure** system security aaa local-profiles profile *named-item*
Tree	profile

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Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**user-profile-name**] *named-item*

Synopsis	User profile name
Context	**configure** system security aaa local-profiles profile *named-item*
Tree	profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'user-profile-name' must not contain spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-session-group *reference*

Synopsis	CLI session group to which the profile belongs
Context	**configure** system security aaa local-profiles profile *named-item* cli-session-group *reference*
Tree	cli-session-group
Reference	**configure** system security aaa cli-session-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

combined-max-sessions *number*

Synopsis	Maximum number of concurrent SSH and Telnet sessions
Context	**configure** system security aaa local-profiles profile *named-item* combined-max-sessions *number*
Tree	combined-max-sessions
Range	0 to 50
Introduced	25.3.R2
Platforms	SAR Gen 2

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default-action *keyword*

Synopsis	Action for non-matching entry
Context	**configure** system security aaa local-profiles profile *named-item* default-action *keyword*
Tree	default-action
Description	This command specifies the default action to be applied when no match conditions are met in the list of **profile entry match** commands. It does not apply to other parts of the profile such as **grpc rpc-authorization** or **netconf base-op-authorization**. When a user is a member of multiple profiles, profiles are evaluated in the order that they are configured. Evaluation stops if there is a match, or when the default action of the profile is **deny-all**, **permit-all**, or **read-only-all**. When the profile default action is none and if no match conditions are met in the profile, the next profile is evaluated. When the default action of the last profile is none and no explicit match is found, the command is denied.
Options	deny-all – Deny access to all commands permit-all – Allow access to all commands none – No action; evaluate the next profile read-only-all – Allow read-only access to all commands
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security aaa local-profiles profile *named-item* entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	User profile entry ID
Context	**configure** system security aaa local-profiles profile *named-item* entry *number*
Tree	entry
Range	1 to 9999
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

action *keyword*

Synopsis	Action when a command matches the entry
Context	**configure** system security aaa local-profiles profile *named-item* entry *number* action *keyword*
Tree	action
Description	This command configures the action associated with the profile entry.
Options	deny – Keyword permit – Keyword none – No action; evaluate the next entry read-only – Keyword
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security aaa local-profiles profile *named-item* entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

match *display-string*

Synopsis	Command to match the entry
Context	**configure** system security aaa local-profiles profile *named-item* entry *number* match *display-string*
Tree	match
String length	1 to 255
Introduced	25.3.R2
Platforms	SAR Gen 2

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grpc

Synopsis	Enter the **grpc** context
Context	**configure** system security aaa local-profiles profile *named-item* grpc
Tree	grpc
Introduced	25.3.R2
Platforms	SAR Gen 2

custom-proto *keyword*

Synopsis	Allow custom-proto service RPCs.
Context	**configure** system security aaa local-profiles profile *named-item* grpc custom-proto *keyword*
Tree	custom-proto
Options	permit, deny
Default	deny permit
Introduced	26.7.R1
Platforms	SAR Gen 2

rpc-authorization

Synopsis	Enter the **rpc-authorization** context
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization
Tree	rpc-authorization
Description	Commands in this context control the authorization of each RPC in gRPC interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

gnmi-capabilities *keyword*

Synopsis	gNMI Capabilities RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnmi-capabilities *keyword*
Tree	gnmi-capabilities

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Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnmi-get *keyword*

Synopsis	gNMI Get RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnmi-get *keyword*
Tree	gnmi-get
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnmi-set *keyword*

Synopsis	gNMI Set RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnmi-set *keyword*
Tree	gnmi-set
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnmi-subscribe *keyword*

Synopsis	gNMI Subscribe RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnmi-subscribe *keyword*
Tree	gnmi-subscribe
Options	permit, deny
Default	permit

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Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-cert-mgmt-cangenerate *keyword*

Synopsis	gNOI CanGenerateCSR RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-cert-mgmt-cangenerate *keyword*
Tree	gnoi-cert-mgmt-cangenerate
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-cert-mgmt-getcert *keyword*

Synopsis	gNOI GetCertificates RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-cert-mgmt-getcert *keyword*
Tree	gnoi-cert-mgmt-getcert
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-cert-mgmt-install *keyword*

Synopsis	gNOI Install RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-cert-mgmt-install *keyword*
Tree	gnoi-cert-mgmt-install
Options	permit, deny
Default	deny permit

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Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-cert-mgmt-revoke *keyword*

Synopsis	gNOI RevokeCertificates RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-cert-mgmt-revoke *keyword*
Tree	gnoi-cert-mgmt-revoke
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-cert-mgmt-rotate *keyword*

Synopsis	gNOI Rotate RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-cert-mgmt-rotate *keyword*
Tree	gnoi-cert-mgmt-rotate
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-file-get *keyword*

Synopsis	gNOI File Get RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-file-get *keyword*
Tree	gnoi-file-get
Options	permit, deny
Default	permit
Introduced	25.3.R2

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Platforms	SAR Gen 2

gnoi-file-put *keyword*

Synopsis	gNOI File Put RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-file-put *keyword*
Tree	gnoi-file-put
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-file-remove *keyword*

Synopsis	gNOI File Remove RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-file-remove *keyword*
Tree	gnoi-file-remove
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-file-stat *keyword*

Synopsis	gNOI File Stat RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-file-stat *keyword*
Tree	gnoi-file-stat
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

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gnoi-file-transfertoremote *keyword*

Synopsis	gNOI File TransferToRemote RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-file-transfertoremote *keyword*
Tree	gnoi-file-transfertoremote
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-system-cancelreboot *keyword*

Synopsis	gNOI System CancelReboot RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-cancelreboot *keyword*
Tree	gnoi-system-cancelreboot
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-system-ping *keyword*

Synopsis	gNOI System Ping RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-ping *keyword*
Tree	gnoi-system-ping
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

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gnoi-system-reboot *keyword*

Synopsis	gNOI System Reboot RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-reboot *keyword*
Tree	gnoi-system-reboot
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-system-rebootstatus *keyword*

Synopsis	gNOI System RebootStatus RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-rebootstatus *keyword*
Tree	gnoi-system-rebootstatus
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-system-setpackage *keyword*

Synopsis	gNOI System SetPackage RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-setpackage *keyword*
Tree	gnoi-system-setpackage
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

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gnoi-system-switchcontrolprocessor *keyword*

Synopsis	gNOI System SwitchControlProcessor RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-switchcontrolprocessor *keyword*
Tree	gnoi-system-switchcontrolprocessor
Options	permit, deny
Default	deny permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-system-time *keyword*

Synopsis	gNOI System Time RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-time *keyword*
Tree	gnoi-system-time
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

gnoi-system-traceroute *keyword*

Synopsis	gNOI System Traceroute RPC authorization
Context	**configure** system security aaa local-profiles profile *named-item* grpc rpc-authorization gnoi-system-traceroute *keyword*
Tree	gnoi-system-traceroute
Options	permit, deny
Default	permit
Introduced	25.3.R2
Platforms	SAR Gen 2

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netconf

Synopsis	Enter the **netconf** context
Context	**configure** system security aaa local-profiles profile *named-item* netconf
Tree	netconf
Introduced	25.3.R2
Platforms	SAR Gen 2

base-op-authorization

Synopsis	Enter the **base-op-authorization** context
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization
Tree	base-op-authorization
Description	Commands in this context configure the permission to use NETCONF operations at the base operation level for the specified profile. The NETCONF operations are authorized by default in the built-in system-generated administrative profile.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *boolean*

Synopsis	Allow the NETCONF <action> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization action *boolean*
Tree	action
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

cancel-commit *boolean*

Synopsis	Allow the NETCONF <cancel-commit> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization cancel-commit *boolean*

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Tree	cancel-commit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

close-session *boolean*

Synopsis	Allow the NETCONF <close-session> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization close-session *boolean*
Tree	close-session
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

commit *boolean*

Synopsis	Allow the NETCONF <commit> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization commit *boolean*
Tree	commit
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

copy-config *boolean*

Synopsis	Allow the NETCONF <copy-config> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization copy-config *boolean*
Tree	copy-config
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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create-subscription *boolean*

Synopsis	Allow the NETCONF <create-subscription> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization create-subscription *boolean*
Tree	create-subscription
Description	When configured to **true**, the system enables the NETCONF create-subscription operation in the default profile. The configuration of this command is checked only at the time of the initial subscription. Configuration changes to this command do not cancel any in-progress subscriptions, and users who successfully subscribed initially continue to receive messages. The operation is enabled by default in the built-in system-generated administrative profile.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

delete-config *boolean*

Synopsis	Allow the NETCONF <delete-config> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization delete-config *boolean*
Tree	delete-config
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

discard-changes *boolean*

Synopsis	Allow the NETCONF <discard-changes> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization discard-changes *boolean*
Tree	discard-changes
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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edit-config *boolean*

Synopsis	Allow the NETCONF <edit-config> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization edit-config *boolean*
Tree	edit-config
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

get *boolean*

Synopsis	Allow the NETCONF <get> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization get *boolean*
Tree	get
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

get-config *boolean*

Synopsis	Allow the NETCONF <get-config> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization get-config *boolean*
Tree	get-config
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

get-data *boolean*

Synopsis	Allow the NETCONF <get-data> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization get-data *boolean*
Tree	get-data

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

get-schema *boolean*

Synopsis	Allow the NETCONF <get-schema> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization get-schema *boolean*
Tree	get-schema
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

kill-session *boolean*

Synopsis	Allow the NETCONF <kill-session> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization kill-session *boolean*
Tree	kill-session
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

lock *boolean*

Synopsis	Allow the NETCONF <lock> and <unlock> RPCs
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization lock *boolean*
Tree	lock
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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validate *boolean*

Synopsis	Allow the NETCONF <validate> RPC
Context	**configure** system security aaa local-profiles profile *named-item* netconf base-op-authorization validate *boolean*
Tree	validate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh-max-sessions *number*

Synopsis	Maximum number of concurrent SSH sessions
Context	**configure** system security aaa local-profiles profile *named-item* ssh-max-sessions *number*
Tree	ssh-max-sessions
Range	0 to 50
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-max-sessions *number*

Synopsis	Maximum number of concurrent Telnet sessions
Context	**configure** system security aaa local-profiles profile *named-item* telnet-max-sessions *number*
Tree	telnet-max-sessions
Range	0 to 50
Introduced	25.3.R2
Platforms	SAR Gen 2

management-interface

Synopsis	Enter the **management-interface** context
Context	**configure** system security aaa management-interface
Tree	management-interface
Introduced	25.3.R2

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Platforms	SAR Gen 2

grpc

Synopsis	Enter the **grpc** context
Context	**configure** system security aaa management-interface grpc
Tree	grpc
Description	Commands in this context configure gRPC TLS authentication options.
Introduced	25.7.R1
Platforms	SAR Gen 2

tls-authentication

Synopsis	Enter the **tls-authentication** context
Context	**configure** system security aaa management-interface grpc tls-authentication
Tree	tls-authentication
Introduced	25.7.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of mTLS authentication
Context	**configure** system security aaa management-interface grpc tls-authentication admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.7.R1
Platforms	SAR Gen 2

default-user *reference*

Synopsis	Local user to display with mTLS authentication
Context	**configure** system security aaa management-interface grpc tls-authentication default-user *reference*
Tree	default-user

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Description	This command configures the local user to display for gRPC sessions authenticated using mTLS when the username metadata is not sent during authentication. The configured local user is associated with every session that authenticates with mTLS without a username. This username is displayed in several places, for example, in the command output for the **show users** command, YANG state, log messages, and debug messages. The local user must be configured but is not used in mTLS authentication.
Reference	**configure** system security user-params local-user user *named-item*
Introduced	25.7.R1
Platforms	SAR Gen 2

md-cli

Synopsis	Enter the **md-cli** context
Context	**configure** system security aaa management-interface md-cli
Tree	md-cli
Introduced	25.3.R2
Platforms	SAR Gen 2

command-accounting-during-load *boolean*

Synopsis	Perform file command accounting for load or rollback
Context	**configure** system security aaa management-interface md-cli command-accounting-during-load *boolean*
Tree	command-accounting-during-load
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

output-authorization

Synopsis	Enter the **output-authorization** context
Context	**configure** system security aaa management-interface output-authorization
Tree	output-authorization
Description	Commands in this context configure output authorization for model-driven interfaces and telemetry. When output authorization is performed, commands that display configuration or state output must authorize every element in the output. If a remote AAA server is configured,

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there may be delays in displaying output while the output is authorized. The remote AAA server may receive a large volume of authorization requests when substantial output displays are needed, such as for system configuration details.

Input to edit the configuration is always authorized, and is not affected by commands in this context.

Introduced 25.3.R2

Platforms SAR Gen 2

md-interfaces *boolean*

Synopsis Authorize output in model-driven interfaces

Context **configure** system security aaa management-interface output-authorization md-interfaces *boolean*

Tree md-interfaces

Description When configured to **true**, output is authorized for the following:

- MD-CLI **info** and **compare** commands
- MD-CLI command completion of list key values
- NETCONF <get> and <get-config> RPC
- gRPC/gNMI Get RPCs

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

telemetry-data *boolean*

Synopsis Authorize dial-in telemetry output

Context **configure** system security aaa management-interface output-authorization telemetry-data *boolean*

Tree telemetry-data

Description When configured to **true**, the system authorizes telemetry data in gNMI Subscriber RPC responses for dial-in telemetry.

When configured to **false**, telemetry data is not authorized.

Default false

Introduced 25.3.R2

Platforms SAR Gen 2

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telemetry-default-user *reference*

Synopsis	Local user for dial-out telemetry output authorization
Context	**configure** system security aaa management-interface output-authorization telemetry-default-user *reference*
Tree	telemetry-default-user
Description	This command specifies the local user for telemetry data authorization in gNMI Publish RPCs for dial-out telemetry. The administrator must configure the local user to ensure the subscription is operational.
Reference	**configure** system security user-params local-user user *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

remote-servers

Synopsis	Enter the **remote-servers** context
Context	**configure** system security aaa remote-servers
Tree	remote-servers
Introduced	25.3.R2
Platforms	SAR Gen 2

ldap

Synopsis	Enter the **ldap** context
Context	**configure** system security aaa remote-servers ldap
Tree	ldap
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LDAP operation protocol
Context	**configure** system security aaa remote-servers ldap admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable

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Introduced	25.3.R2
Platforms	SAR Gen 2

public-key-authentication *boolean*

Synopsis	Allow SSH public key authentication from LDAP server
Context	**configure** system security aaa remote-servers ldap public-key-authentication *boolean*
Tree	public-key-authentication
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

route-preference *keyword*

Synopsis	Route preference to reach the AAA server
Context	**configure** system security aaa remote-servers ldap route-preference *keyword*
Tree	route-preference
Description	This command specifies the routing preference to reach the AAA server. If the configured option is to use both in-band and out-of-band routes, the out-of-band routes in the Base routing instance are used to reach the server before the in-band routes in the management routing instance.
Options	both, inband, outband
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

server [index] *number*

Synopsis	Enter the **server** list instance
Context	**configure** system security aaa remote-servers ldap server *number*
Tree	server
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**index**] *number*

Synopsis	LDAP server ID
Context	**configure** system security aaa remote-servers ldap server *number*
Tree	server
Range	1 to 5
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Enter the **address** list instance
Context	**configure** system security aaa remote-servers ldap server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	LDAP server address
Context	**configure** system security aaa remote-servers ldap server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	Port number on which to contact the LDAP server
Context	**configure** system security aaa remote-servers ldap server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)* port *number*

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Tree	port
Range	1 to 65535
Default	389
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the LDAP server
Context	**configure** system security aaa remote-servers ldap server *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

bind-authentication

Synopsis	Enter the **bind-authentication** context
Context	**configure** system security aaa remote-servers ldap server *number* bind-authentication
Tree	bind-authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

password *encrypted-leaf*

Synopsis	Password used for authentication with the LDAP server
Context	**configure** system security aaa remote-servers ldap server *number* bind-authentication password *encrypted-leaf*
Tree	password
Description	This command specifies the password used for authentication with the LDAP server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 254

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Introduced	25.3.R2
Platforms	SAR Gen 2

root-dn *string-not-all-spaces*

Synopsis	Root domain used for authentication with LDAP server
Context	**configure** system security aaa remote-servers ldap server *number* bind-authentication root-dn *string-not-all-spaces*
Tree	root-dn
String length	1 to 512
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

search

Synopsis	Enter the **search** context
Context	**configure** system security aaa remote-servers ldap server *number* search
Tree	search
Introduced	25.3.R2
Platforms	SAR Gen 2

base-dn *string-not-all-spaces*

Synopsis	LDAP server search base domain name
Context	**configure** system security aaa remote-servers ldap server *number* search base-dn *string-not-all-spaces*
Tree	base-dn
String length	1 to 512
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

server-name *named-item*

Synopsis	LDAP server name

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Context	**configure** system security aaa remote-servers ldap server *number* server-name *named-item*
Tree	server-name
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-profile *reference*

Synopsis	TLS client profile used to encrypt the LDAP connection
Context	**configure** system security aaa remote-servers ldap server *number* tls-profile *reference*
Tree	tls-profile
Reference	**configure** system security tls client-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

server-retry *number*

Synopsis	Number of attempts to retry contacting the LDAP server
Context	**configure** system security aaa remote-servers ldap server-retry *number*
Tree	server-retry
Range	1 to 10
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

server-timeout *number*

Synopsis	Timeout for a response from the LDAP server
Context	**configure** system security aaa remote-servers ldap server-timeout *number*
Tree	server-timeout
Range	1 to 90
Units	seconds
Default	3

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Introduced	25.3.R2
Platforms	SAR Gen 2

use-default-template *boolean*

Synopsis	Apply the default template to LDAP
Context	**configure** system security aaa remote-servers ldap use-default-template *boolean*
Tree	use-default-template
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

radius

Synopsis	Enter the **radius** context
Context	**configure** system security aaa remote-servers radius
Tree	radius
Introduced	25.3.R2
Platforms	SAR Gen 2

access-algorithm *keyword*

Synopsis	Algorithm used to access the set of RADIUS servers
Context	**configure** system security aaa remote-servers radius access-algorithm *keyword*
Tree	access-algorithm
Options	direct, round-robin
Default	direct
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting *boolean*

Synopsis	Enable RADIUS command accounting
Context	**configure** system security aaa remote-servers radius accounting *boolean*
Tree	accounting

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-port *number*

Synopsis	Port number on RADIUS server for accounting requests
Context	**configure** system security aaa remote-servers radius accounting-port *number*
Tree	accounting-port
Range	1 to 65535
Default	1813
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the authentication server
Context	**configure** system security aaa remote-servers radius admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authorization *boolean*

Synopsis	Enable RADIUS authorization
Context	**configure** system security aaa remote-servers radius authorization *boolean*
Tree	authorization
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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interactive-authentication *boolean*

Synopsis	Enable RADIUS interactive authentication
Context	**configure** system security aaa remote-servers radius interactive-authentication *boolean*
Tree	interactive-authentication
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	UDP port number on which to contact RADIUS server
Context	**configure** system security aaa remote-servers radius port *number*
Tree	port
Range	1 to 65535
Default	1812
Introduced	25.3.R2
Platforms	SAR Gen 2

route-preference *keyword*

Synopsis	Route preference to reach the AAA server
Context	**configure** system security aaa remote-servers radius route-preference *keyword*
Tree	route-preference
Description	This command specifies the routing preference to reach the AAA server. If the configured option is to use both in-band and out-of-band routes, the out-of-band routes in the Base routing instance are used to reach the server before the in-band routes in the management routing instance.
Options	both, inband, outband
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

server [index] *number*

Synopsis	Enter the **server** list instance

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Context	**configure** system security aaa remote-servers radius server *number*
Tree	server
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	RADIUS server ID
Context	**configure** system security aaa remote-servers radius server *number*
Tree	server
Range	1 to 5
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the RADIUS server
Context	**configure** system security aaa remote-servers radius server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticator *keyword*

Synopsis	Authenticator hash algorithm for the RADIUS server
Context	**configure** system security aaa remote-servers radius server *number* authenticator *keyword*
Tree	authenticator
Description	This command specifies the hash algorithm used to authenticate RADIUS Access-Request, Access-Accept, Access-Reject, Access-Challenge, Accounting-Request, and Accounting-Response packets.

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Options	md5, sm3
Default	md5
Introduced	25.3.R2
Platforms	SAR Gen 2

secret *encrypted-leaf*

Synopsis	Secret key to access the RADIUS server
Context	**configure** system security aaa remote-servers radius server *number* secret *encrypted-leaf*
Tree	secret
Description	This command specifies the secret key to access the RADIUS server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-client-profile *reference*

Synopsis	TLS client profile for the RADIUS server
Context	**configure** system security aaa remote-servers radius server *number* tls-client-profile *reference*
Tree	tls-client-profile
Description	This command specifies the TLS client profile used to encrypt RADIUS communication. When configured, RADIUS messages are sent using TLS.
Reference	**configure** system security tls client-tls-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

server-retry *number*

Synopsis	Number of attempts to retry contacting RADIUS server
Context	**configure** system security aaa remote-servers radius server-retry *number*
Tree	server-retry

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Range	1 to 10
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

server-timeout *number*

Synopsis	Time to wait for a response from the RADIUS server
Context	**configure** system security aaa remote-servers radius server-timeout *number*
Tree	server-timeout
Range	1 to 90
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

use-default-template *boolean*

Synopsis	Apply the RADIUS default user template to RADIUS user
Context	**configure** system security aaa remote-servers radius use-default-template *boolean*
Tree	use-default-template
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tacplus

Synopsis	Enter the **tacplus** context
Context	**configure** system security aaa remote-servers tacplus
Tree	tacplus
Introduced	25.3.R2
Platforms	SAR Gen 2

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accounting

Synopsis	Enable the **accounting** context
Context	**configure** system security aaa remote-servers tacplus accounting
Tree	accounting
Introduced	25.3.R2
Platforms	SAR Gen 2

record-type *keyword*

Synopsis	Type of accounting record packet sent to TACACS+ server
Context	**configure** system security aaa remote-servers tacplus accounting record-type *keyword*
Tree	record-type
Options	start-stop, stop-only
Default	stop-only
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-control

Synopsis	Enter the **admin-control** context
Context	**configure** system security aaa remote-servers tacplus admin-control
Tree	admin-control
Introduced	25.3.R2
Platforms	SAR Gen 2

tacplus-map-to-priv-lvl *number*

Synopsis	Interactive authentication from node to TACACS+ server
Context	**configure** system security aaa remote-servers tacplus admin-control tacplus-map-to-priv-lvl *number*
Tree	tacplus-map-to-priv-lvl
Range	0 to 15
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the TACACS+ protocol
Context	**configure** system security aaa remote-servers tacplus admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

authorization

Synopsis	Enable the **authorization** context
Context	**configure** system security aaa remote-servers tacplus authorization
Tree	authorization
Introduced	25.3.R2
Platforms	SAR Gen 2

request-format

Synopsis	Enter the **request-format** context
Context	**configure** system security aaa remote-servers tacplus authorization request-format
Tree	request-format
Description	Commands in this context configure access operations that are sent to the TACACS+ server during authorization.
Introduced	25.3.R2
Platforms	SAR Gen 2

access-operation-cmd *keyword*

Synopsis	Access operations sent in authorization requests
Context	**configure** system security aaa remote-servers tacplus authorization request-format access-operation-cmd *keyword*
Tree	access-operation-cmd
Description	This command sends an operation argument in authorization requests.

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	In model-driven interfaces, this command configures the system to send the operation in the cmd argument, and the path in the cmd-args argument, in TACACS+ authorization requests. This command does not apply to authorization requests in classic interfaces.
Options	delete
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

use-priv-lvl *boolean*

Synopsis	Allow privilege level mapping
Context	**configure** system security aaa remote-servers tacplus authorization use-priv-lvl *boolean*
Tree	use-priv-lvl
Description	When configured to **true**, this command automatically performs a single authorization request to the TACACS+ server for cmd* (all commands) immediately after login, and then uses the local profile associated (via the **priv-lvl-map**) with the priv-lvl returned by the TACACS+ server for all subsequent authorization (except **enable-admin**). After the initial authorization for cmd*, no further authorization requests are sent to the TACACS+ server (except **enable-admin**). When configured to **false**, each command is sent to the TACACS+ server for authorization (this is true regardless of whether the **tacplus use-default-template** setting is enabled).
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ignore-unknown-mandatory-vsas *boolean*

Synopsis	Ignore unknown mandatory VSAs and fail authentication
Context	**configure** system security aaa remote-servers tacplus ignore-unknown-mandatory-vsas *boolean*
Tree	ignore-unknown-mandatory-vsas
Description	When configured to **true**, the system ignores unknown mandatory VSAs and authentication succeeds. When configured to **false**, the system ignores unknown mandatory VSAs received in a reply from the TACACS+ server. Authentication fails and the user is disconnected because the system cannot process a mandatory VSA that is unknown.
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

interactive-authentication *boolean*

Synopsis	Allows TACACS+ interactive authentication
Context	**configure** system security aaa remote-servers tacplus interactive-authentication *boolean*
Tree	interactive-authentication
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

priv-lvl-map

Synopsis	Enter the **priv-lvl-map** context
Context	**configure** system security aaa remote-servers tacplus priv-lvl-map
Tree	priv-lvl-map
Introduced	25.3.R2
Platforms	SAR Gen 2

priv-lvl [level] *number*

Synopsis	Enter the **priv-lvl** list instance
Context	**configure** system security aaa remote-servers tacplus priv-lvl-map priv-lvl *number*
Tree	priv-lvl
Introduced	25.3.R2
Platforms	SAR Gen 2

[**level**] *number*

Synopsis	Privilege level for the mapping
Context	**configure** system security aaa remote-servers tacplus priv-lvl-map priv-lvl *number*
Tree	priv-lvl
Range	0 to 15

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

user-profile-name *reference*

Synopsis	User profile for the mapping
Context	**configure** system security aaa remote-servers tacplus priv-lvl-map priv-lvl *number* user-profile-name *reference*
Tree	user-profile-name
Reference	**configure** system security aaa local-profiles profile *named-item*
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

route-preference *keyword*

Synopsis	Route preference to reach the AAA server
Context	**configure** system security aaa remote-servers tacplus route-preference *keyword*
Tree	route-preference
Description	This command specifies the routing preference to reach the AAA server. If the configured option is to use both in-band and out-of-band routes, the out-of-band routes in the Base routing instance are used to reach the server before the in-band routes in the management routing instance.
Options	both, inband, outband
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

server [index] *number*

Synopsis	Enter the **server** list instance
Context	**configure** system security aaa remote-servers tacplus server *number*
Tree	server
Max. instances	5

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	TACACS+ server ID
Context	**configure** system security aaa remote-servers tacplus server *number*
Tree	server
Range	1 to 5
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the TACACS+ server
Context	**configure** system security aaa remote-servers tacplus server *number* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP port ID on which to contact TACACS+ server
Context	**configure** system security aaa remote-servers tacplus server *number* port *number*
Tree	port
Range	0 | 1 to 65535
Default	49
Introduced	25.3.R2
Platforms	SAR Gen 2

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secret *encrypted-leaf*

Synopsis	Secret key to access the TACACS+ server
Context	**configure** system security aaa remote-servers tacplus server *number* secret *encrypted-leaf*
Tree	secret
Description	This command specifies the secret key to access the TACACS+ server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-retry-timeout *(number | keyword)*

Synopsis	Time before retrying requests when health checks are disabled
Context	**configure** system security aaa remote-servers tacplus server-retry-timeout *(number | keyword)*
Tree	server-retry-timeout
Description	This command configures the maximum timeout before retrying requests when health checks are disabled and all TACACS+ servers are operationally down. Set the value of this timer to a lower value or disable it to increase the interactive responsiveness of AAA requests after the servers become unreachable.
Range	1 to 300
Units	seconds
Options	none – Disable retry timeout and send requests immediately
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

server-timeout *number*

Synopsis	Time to wait for a response from the TACACS+ server
Context	**configure** system security aaa remote-servers tacplus server-timeout *number*

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Tree	server-timeout
Range	1 to 90
Units	seconds
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

service-request

Synopsis	Enter the **service-request** context
Context	**configure** system security aaa remote-servers tacplus service-request
Tree	service-request
Description	Commands in this context enable Nokia services to be requested from the TACACS+ server when a user authenticates.
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-grpc-rpc-authorization *boolean*

Synopsis	Request nokia-grpc-rpc-authorization service VSAs
Context	**configure** system security aaa remote-servers tacplus service-request nokia-grpc-rpc-authorization *boolean*
Tree	nokia-grpc-rpc-authorization
Description	When configured to **true**, the nokia-grpc-rpc-authorization service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-netconf-base-op-authorization *boolean*

Synopsis	Request nokia-netconf-base-op-authorization service VSAs
Context	**configure** system security aaa remote-servers tacplus service-request nokia-netconf-base-op-authorization *boolean*
Tree	nokia-netconf-base-op-authorization

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Description	When configured to **true**, the nokia-netconf-base-op-authorization service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-user *boolean*

Synopsis	Request nokia-user service VSAs
Context	**configure** system security aaa remote-servers tacplus service-request nokia-user *boolean*
Tree	nokia-user
Description	When configured to **true**, the nokia-user service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

nokia-user-profile *boolean*

Synopsis	Request nokia-user-profile service VSAs
Context	**configure** system security aaa remote-servers tacplus service-request nokia-user-profile *boolean*
Tree	nokia-user-profile
Description	When configured to **true**, the nokia-user-profile service is requested from the TACACS+ server after successful authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

use-default-template *boolean*

Synopsis	Apply TACACS+ default user-template to TACACS+ user
Context	**configure** system security aaa remote-servers tacplus use-default-template *boolean*
Tree	use-default-template
Default	true

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Introduced	25.3.R2
Platforms	SAR Gen 2

vprn-server

Synopsis	Enter the **vprn-server** context
Context	**configure** system security aaa remote-servers vprn-server
Tree	vprn-server
Introduced	25.3.R2
Platforms	SAR Gen 2

inband *reference*

Synopsis	VPRN service used for AAA by in-band sessions
Context	**configure** system security aaa remote-servers vprn-server inband *reference*
Tree	inband
Description	This command configures TACACS+ or RADIUS servers in a VPRN to be used for AAA by that VPRN and by sessions in the Base routing instance.
Reference	**configure** service vprn *service-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

outband *reference*

Synopsis	VPRN service used for AAA by out-of-band sessions
Context	**configure** system security aaa remote-servers vprn-server outband *reference*
Tree	outband
Description	This command configures TACACS+ and RADIUS servers in a VPRN to be used for AAA by that VPRN and by sessions on the console or out-of-band (OOB) Ethernet ports.
Reference	**configure** service vprn *service-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

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vprn *reference*

Synopsis	VPRN used for AAA in VPRNs without a AAA server
Context	**configure** system security aaa remote-servers vprn-server vprn *reference*
Tree	vprn
Description	This command configures TACACS+ or RADIUS servers in a VPRN to be used for AAA by that VPRN and by sessions in VPRNs without a AAA server configured.
Reference	**configure** service vprn *service-name*
Introduced	25.3.R2
Platforms	SAR Gen 2

user-template [user-template-name] *keyword*

Synopsis	Enter the **user-template** list instance
Context	**configure** system security aaa user-template *keyword*
Tree	user-template
Description	Commands in this context configure templates for remote users.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**user-template-name**] *keyword*

Synopsis	Default user template applied to the remote user
Context	**configure** system security aaa user-template *keyword*
Tree	user-template
Options	ldap-default – Default LDAP user template radius-default – Default RADIUS user template tacplus-default – Default TACACS+ user template
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

access

Synopsis	Enter the **access** context
Context	**configure** system security aaa user-template *keyword* access

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Tree	access
Description	Commands in this context grant a user access to the router management access methods. If a user requires access to more than one method, multiple methods can be specified.
Introduced	25.3.R2
Platforms	SAR Gen 2

console *boolean*

Synopsis	Allow console port, SCP/SFTP, SSH, and Telnet access
Context	**configure** system security aaa user-template *keyword* access console *boolean*
Tree	console
Description	When configured to **true**, the system allows this access method to take precedence over other access methods in all cases.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

console-port-cli *boolean*

Synopsis	Allow console port CLI access
Context	**configure** system security aaa user-template *keyword* access console-port-cli *boolean*
Tree	console-port-cli
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ftp *boolean*

Synopsis	Allow FTP access
Context	**configure** system security aaa user-template *keyword* access ftp *boolean*
Tree	ftp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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grpc *boolean*

Synopsis	Allow gRPC access
Context	**configure** system security aaa user-template *keyword* access grpc *boolean*
Tree	grpc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf *boolean*

Synopsis	Allow NETCONF access
Context	**configure** system security aaa user-template *keyword* access netconf *boolean*
Tree	netconf
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

scp-sftp *boolean*

Synopsis	Allow SCP/SFTP access
Context	**configure** system security aaa user-template *keyword* access scp-sftp *boolean*
Tree	scp-sftp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh-cli *boolean*

Synopsis	Allow SSH CLI access
Context	**configure** system security aaa user-template *keyword* access ssh-cli *boolean*
Tree	ssh-cli
Default	false
Introduced	25.3.R2

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Platforms	SAR Gen 2

telnet-cli *boolean*

Synopsis	Allow Telnet CLI access
Context	**configure** system security aaa user-template *keyword* access telnet-cli *boolean*
Tree	telnet-cli
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

console

Synopsis	Enter the **console** context
Context	**configure** system security aaa user-template *keyword* console
Tree	console
Introduced	25.3.R2
Platforms	SAR Gen 2

login-exec *string-not-all-spaces*

Synopsis	File to execute when the user logs in
Context	**configure** system security aaa user-template *keyword* console login-exec *string-not-all-spaces*
Tree	login-exec
String length	1 to 200
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

home-directory *cflash-without-slot-url*

Synopsis	User local home directory based on the template
Context	**configure** system security aaa user-template *keyword* home-directory *cflash-without-slot-url*
Tree	home-directory

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Description	This command configures the home directory of the user for file access. Files can be accessed locally by CLI **file** commands and output modifiers such as **>** (file redirect), or remotely via FTP and SCP. If the home directory does not exist, a warning message is displayed when the user logs in. When **restricted-to-home** is configured, file access is denied unless the **home-directory** is configured and the directory is created by an administrator.
String length	1 to 200
String format	'cflash-without-slot-url' must be cf1-4: followed by path (e.g. cf1:/path)
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *named-item*

Synopsis	User profile based on the template
Context	**configure** system security aaa user-template *keyword* profile *named-item*
Tree	profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'profile' must not contain spaces
Introduced	25.3.R2
Platforms	SAR Gen 2

restricted-to-home *boolean*

Synopsis	Restrict file access to the home directory of the user
Context	**configure** system security aaa user-template *keyword* restricted-to-home *boolean*
Tree	restricted-to-home
Description	When configured to **true**, the router denies the user from accessing files outside of their local home directory. Files can be accessed locally by CLI file commands and output modifiers such as **>** (file redirect). The system denies all configuration save operations (such as **admin save**) via any management interface (such as CLI and NETCONF) unless **save-when-restricted** is enabled. File access is denied unless a home directory is configured and the directory is created by an administrator. When configured to **false**, the router permits the user to access all files on the system and to remote files.
Default	true
Introduced	25.3.R2

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Platforms	SAR Gen 2

save-when-restricted *boolean*

Synopsis	Save configurations when the user is restricted to home
Context	**configure** system security aaa user-template *keyword* save-when-restricted *boolean*
Tree	save-when-restricted
Description	When configured to **true**, the system permits configuration save operations for all configuration regions (such as bof and configure) via any management interface (such as CLI and NETCONF) even if **restricted-to-home** is enabled. The configuration for each region can be saved with **admin save** CLI commands or when committed over NETCONF and gRPC. When configured to **false**, the system denies saving the configuration when **restricted-to-home** is enabled, unless the home directory of the user includes the location of the saved configuration file.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-script

Synopsis	Enter the **cli-script** context
Context	**configure** system security cli-script
Tree	cli-script
Introduced	25.3.R2
Platforms	SAR Gen 2

authorization

Synopsis	Enter the **authorization** context
Context	**configure** system security cli-script authorization
Tree	authorization
Introduced	25.3.R2
Platforms	SAR Gen 2

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cron

Synopsis	Enter the **cron** context
Context	**configure** system security cli-script authorization cron
Tree	cron
Description	Commands in this context configure authorization for the cron job scheduler.
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-user *reference*

Synopsis	User profile name for CLI command script authorization
Context	**configure** system security cli-script authorization cron cli-user *reference*
Tree	cli-user
Reference	**configure** system security user-params local-user user *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

event-handler

Synopsis	Enter the **event-handler** context
Context	**configure** system security cli-script authorization event-handler
Tree	event-handler
Description	Commands in this context configure authorization for the Event Handling System (EHS). EHS allows user-controlled programmatic exception handling by allowing a CLI script to be executed upon the detection of a log event.
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-user *reference*

Synopsis	User profile name for CLI command script authorization
Context	**configure** system security cli-script authorization event-handler cli-user *reference*
Tree	cli-user
Reference	**configure** system security user-params local-user user *named-item*

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Introduced	25.3.R2
Platforms	SAR Gen 2

console-login *boolean*

Synopsis	Enable logins on the serial console port of the CPM
Context	**configure** system security console-login *boolean*
Tree	console-login
Description	When configured to **true**, the system enables logins on the serial console port of the active CPM. When configured to **false**, the system disables logins on the serial console port of the active CPM. Boot messages and the **pre-login-message**, if configured, are displayed, but the login prompt is not displayed. **Note:** In-band or out-of-band management access must be configured before console logins are disabled so that users can log in to the system.
Default	true
Introduced	25.10.R3
Platforms	SAR Gen 2

dist-cpu-protection

Synopsis	Enter the **dist-cpu-protection** context
Context	**configure** system security dist-cpu-protection
Tree	dist-cpu-protection
Description	Commands in this context configure distributed CPU protection (DCP) attributes.
Introduced	25.3.R2
Platforms	SAR Gen 2

policy [policy-name] *named-item*

Synopsis	Enter the **policy** list instance
Context	**configure** system security dist-cpu-protection policy *named-item*
Tree	policy
Description	Commands in this context configure the attributes of DCP policies. These policies can be applied to objects such as SAPs, network interfaces or ports
Max. instances	130

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *named-item*

Synopsis	Policy name
Context	**configure** system security dist-cpu-protection policy *named-item*
Tree	policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security dist-cpu-protection policy *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

local-monitoring-policer [policer-name] *named-item*

Synopsis	Enter the **local-monitoring-policer** list instance
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item*
Tree	local-monitoring-policer
Max. instances	1
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**policer-name**] *named-item*

Synopsis	Local monitoring policer name
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item*
Tree	local-monitoring-policer
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-action *keyword*

Synopsis	Action taken when policer rates are exceeded
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* exceed-action *keyword*
Tree	exceed-action
Description	This command specifies the action taken on the extracted control packets when the configured policer rates are exceeded.
Options	discard, low-priority, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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log-events *keyword*

Synopsis	Control of log events creation for status and activity
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* log-events *keyword*
Tree	log-events
Description	This command controls the creation of log events related to the status and activity of the local monitoring policer.
Options	false, true, verbose
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate
Tree	rate
Description	Commands in this context specify the rate and burst tolerance for the policer. The actual hardware may not be able to perfectly rate limit to the exact configured parameters. In this case, the configured parameters will be adapted to the closest supported rate.
Introduced	25.3.R2
Platforms	SAR Gen 2

kbps

Synopsis	Enter the **kbps** context
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate kbps
Tree	kbps
Notes	The following elements are part of a choice: **kbps** or **packets**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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limit *(keyword | number)*

Synopsis	Rate limit
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate kbps limit *(keyword | number)*
Tree	limit
Range	1 to 20000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *number*

Synopsis	Tolerance for the rate
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate kbps mbs *number*
Tree	mbs
Range	0 to 4194304
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

packets

Synopsis	Enter the **packets** context
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate packets
Tree	packets
Notes	The following elements are part of a choice: **kbps** or **packets**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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initial-delay *number*

Synopsis	Additional packets allowed in an initial burst
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate packets initial-delay *number*
Tree	initial-delay
Description	This command specifies the number of packets allowed in an initial burst (or a burst after the policer bucket has drained to zero) in addition to the packets per interval limit. The typical setting would be a value equal to the number of received packets in several full handshakes or negotiations of the protocol.
Range	0 to 255
Units	packets
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *(keyword | number)*

Synopsis	Packets per interval limit
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate packets limit *(keyword | number)*
Tree	limit
Range	0 to 8000
Units	packets per interval
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

within *number*

Synopsis	Measurement interval for packets rate
Context	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item* rate packets within *number*
Tree	within
Range	1 to 32767

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Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol [protocol-name] *keyword*

Synopsis	Enter the **protocol** list instance
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword*
Tree	protocol
Introduced	25.3.R2
Platforms	SAR Gen 2

[**protocol-name**] *keyword*

Synopsis	Protocol name
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword*
Tree	protocol
Options	arp, dhcp, http-redirect, icmp, igmp, mld, ndis, pppoe-pppoa, all-unspecified, mpls-ttl, bfd-cpm, bgp, eth-cfm, isis, ldp, ospf, pim, rsvp, icmp-ping-check, lacp, vrrp, multi-chassis, multi-chassis-sync, bfd, ftp, icmp-v4, icmp-v6, l3-to-my-ipv4, l3-to-my-ipv6, lsp-ping, mc-lag, mcast-snooping, radius, rip, sbfd-reflector, snmp, ssh, stp, tacacs, telnet, tftp, twamp, needs-icmp
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-parameters

Synopsis	Enter the **dynamic-parameters** context
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters
Tree	dynamic-parameters
Introduced	25.3.R2
Platforms	SAR Gen 2

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detection-time *number*

Synopsis	Minimum time the dynamic policer remains allocated
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters detection-time *number*
Tree	detection-time
Range	1 to 128000
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

exceed-action

Synopsis	Enter the **exceed-action** context
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters exceed-action
Tree	exceed-action
Description	Commands in this context specify the settings for the scenario when the configured policer rates are exceeded.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action taken on control packets when rates are exceeded
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters exceed-action action *keyword*
Tree	action
Options	discard, low-priority, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

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hold-down *(keyword | number)*

Synopsis	Hold down behavior
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters exceed-action hold-down *(keyword | number)*
Tree	hold-down
Description	This command specifies the behavior when the system detects that an enforcement policer has marked or discarded one or more packets and there is no action specified for the scenario when the rates are exceeded. The hold time condition is cleared after the specified time has expired. The detection time (the minimum time that the policer remains allocated) begins after the hold down is complete. The hold down behavior is not applicable to a local monitoring policer. An indefinite hold down behavior must be cleared using the **tools perform security dist-cpu-protection release-hold-down** command.
Range	1 to 10080
Units	seconds
Options	indefinite, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

log-events *keyword*

Synopsis	Control of log events creation for status and activity
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters log-events *keyword*
Tree	log-events
Description	This command controls the creation of log events related to the status and activity of the local monitoring policer.
Options	false, true, verbose
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context

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Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate
Tree	rate
Description	Commands in this context specify the rate and burst tolerance for the policer. The actual hardware may not be able to perfectly rate limit to the exact configured parameters. In this case, the configured parameters will be adapted to the closest supported rate.
Introduced	25.3.R2
Platforms	SAR Gen 2

kbps

Synopsis	Enter the **kbps** context
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate kbps
Tree	kbps
Notes	The following elements are part of a choice: **kbps** or **packets**.
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *(keyword | number)*

Synopsis	Rate limit
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate kbps limit *(keyword | number)*
Tree	limit
Range	1 to 20000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *number*

Synopsis	Tolerance for the rate

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Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate kbps mbs *number*
Tree	mbs
Range	0 to 4194304
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

packets

Synopsis	Enter the **packets** context
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate packets
Tree	packets
Notes	The following elements are part of a choice: **kbps** or **packets**.
Introduced	25.3.R2
Platforms	SAR Gen 2

initial-delay *number*

Synopsis	Additional packets allowed in an initial burst
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate packets initial-delay *number*
Tree	initial-delay
Description	This command specifies the number of packets allowed in an initial burst (or a burst after the policer bucket has drained to zero) in addition to the packets per interval limit. The typical setting would be a value equal to the number of received packets in several full handshakes or negotiations of the protocol.
Range	0 to 255
Units	packets
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *(keyword | number)*

Synopsis	Packets per interval limit

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Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate packets limit *(keyword | number)*
Tree	limit
Range	0 to 8000
Units	packets per interval
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

within *number*

Synopsis	Measurement interval for packets rate
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* dynamic-parameters rate packets within *number*
Tree	within
Range	1 to 32767
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

enforcement

Synopsis	Enter the **enforcement** context
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* enforcement
Tree	enforcement
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic

Synopsis	Enter the **dynamic** context
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* enforcement dynamic

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Tree	dynamic
Notes	The following elements are part of a choice: **dynamic**, **dynamic-local-mon-bypass**, **shared**, or **static**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mon-policer-name *reference*

Synopsis	Dynamic enforcement policer for the protocol
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* enforcement dynamic mon-policer-name *reference*
Tree	mon-policer-name
Description	This command specifies the dynamic enforcement policer that is instantiated when the associated local monitoring policer is determined to be in a nonconforming state (at the end of a minimum monitoring time of 60 seconds to reduce thrashing).
Reference	**configure** system security dist-cpu-protection policy *named-item* local-monitoring-policer *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

dynamic-local-mon-bypass

Synopsis	Do not include packets in the local monitoring function
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* enforcement dynamic-local-mon-bypass
Tree	dynamic-local-mon-bypass
Description	When configured, packets from the protocol are not included in the local monitoring function and the dynamic enforcement policer is not instantiated for the protocol.
Notes	The following elements are part of a choice: **dynamic**, **dynamic-local-mon-bypass**, **shared**, or **static**.
Introduced	25.3.R2
Platforms	SAR Gen 2

static

Synopsis	Enter the **static** context

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Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* enforcement static
Tree	static
Notes	The following elements are part of a choice: **dynamic**, **dynamic-local-mon-bypass**, **shared**, or **static**.
Introduced	25.3.R2
Platforms	SAR Gen 2

policer-name *reference*

Synopsis	Static policer enforced by the protocol
Context	**configure** system security dist-cpu-protection policy *named-item* protocol *keyword* enforcement static policer-name *reference*
Tree	policer-name
Reference	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

static-policer [policer-name] *named-item*

Synopsis	Enter the **static-policer** list instance
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item*
Tree	static-policer
Description	Commands in this context configure a static enforcement policer that can be referenced by one or more protocols in the policy. When a policer is referenced by a protocol, the policer is instantiated for each object (for example, a SAP or network interface) that is created and references the policer. If no policer resources are available on the associated card or FP, the object is not created.
Max. instances	27
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**policer-name**] *named-item*

Synopsis	Static policer name
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item*
Tree	static-policer
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

detection-time *number*

Synopsis	Minimum time the dynamic policer remains allocated
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* detection-time *number*
Tree	detection-time
Range	1 to 128000
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

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exceed-action

Synopsis	Enter the **exceed-action** context
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* exceed-action
Tree	exceed-action
Description	Commands in this context specify the settings for the scenario when the configured policer rates are exceeded.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action taken on control packets when rates are exceeded
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* exceed-action action *keyword*
Tree	action
Options	discard, low-priority, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-down *(keyword | number)*

Synopsis	Hold down behavior
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* exceed-action hold-down *(keyword | number)*
Tree	hold-down
Description	This command specifies the behavior when the system detects that an enforcement policer has marked or discarded one or more packets and there is no action specified for the scenario when the rates are exceeded. The hold time condition is cleared after the specified time has expired. The detection time (the minimum time that the policer remains allocated) begins after the hold down is complete. The hold down behavior is not applicable to a local monitoring policer. An indefinite hold down behavior must be cleared using the **tools perform security dist-cpu-protection release-hold-down** command.
Range	1 to 10080

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Units	seconds
Options	indefinite, none
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

log-events *keyword*

Synopsis	Control of log events creation for status and activity
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* log-events *keyword*
Tree	log-events
Description	This command controls the creation of log events related to the status and activity of the local monitoring policer.
Options	false, true, verbose
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

rate

Synopsis	Enter the **rate** context
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate
Tree	rate
Description	Commands in this context specify the rate and burst tolerance for the policer. The actual hardware may not be able to perfectly rate limit to the exact configured parameters. In this case, the configured parameters will be adapted to the closest supported rate.
Introduced	25.3.R2
Platforms	SAR Gen 2

kbps

Synopsis	Enter the **kbps** context
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate kbps

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Tree	kbps
Notes	The following elements are part of a choice: **kbps** or **packets**.
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *(keyword | number)*

Synopsis	Rate limit
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate kbps limit *(keyword | number)*
Tree	limit
Range	1 to 20000000
Units	kilobps
Options	max
Default	max
Introduced	25.3.R2
Platforms	SAR Gen 2

mbs *number*

Synopsis	Tolerance for the rate
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate kbps mbs *number*
Tree	mbs
Range	0 to 4194304
Units	bytes
Introduced	25.3.R2
Platforms	SAR Gen 2

packets

Synopsis	Enter the **packets** context
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate packets
Tree	packets
Notes	The following elements are part of a choice: **kbps** or **packets**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

initial-delay *number*

Synopsis	Additional packets allowed in an initial burst
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate packets initial-delay *number*
Tree	initial-delay
Description	This command specifies the number of packets allowed in an initial burst (or a burst after the policer bucket has drained to zero) in addition to the packets per interval limit. The typical setting would be a value equal to the number of received packets in several full handshakes or negotiations of the protocol.
Range	0 to 255
Units	packets
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

limit *(keyword | number)*

Synopsis	Packets per interval limit
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate packets limit *(keyword | number)*
Tree	limit
Range	0 to 8000
Units	packets per interval
Options	max
Introduced	25.3.R2
Platforms	SAR Gen 2

within *number*

Synopsis	Measurement interval for packets rate
Context	**configure** system security dist-cpu-protection policy *named-item* static-policer *named-item* rate packets within *number*
Tree	within

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Range	1 to 32767
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Policy type
Context	**configure** system security dist-cpu-protection policy *named-item* type *keyword*
Tree	type
Options	access-network, port
Introduced	25.3.R2
Platforms	SAR Gen 2

dot1x

Synopsis	Enter the **dot1x** context
Context	**configure** system security dot1x
Tree	dot1x
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of 802.1x network access control
Context	**configure** system security dot1x admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2

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Platforms	SAR Gen 2

radius-policy [policy-name] *named-item*

Synopsis	Enter the **radius-policy** list instance
Context	**configure** system security dot1x radius-policy *named-item*
Tree	radius-policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-name**] *named-item*

Synopsis	RADIUS server policy name for 802.1X authentication
Context	**configure** system security dot1x radius-policy *named-item*
Tree	radius-policy
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the server for authentication
Context	**configure** system security dot1x radius-policy *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

retry *number*

Synopsis	Number of RADIUS requests toward the same RADIUS server
Context	**configure** system security dot1x radius-policy *named-item* retry *number*

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Tree	retry
Range	1 to 10
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

server [server-index] *number*

Synopsis	Enter the **server** list instance
Context	**configure** system security dot1x radius-policy *named-item* server *number*
Tree	server
Max. instances	5
Introduced	25.3.R2
Platforms	SAR Gen 2

[**server-index**] *number*

Synopsis	RADIUS server index
Context	**configure** system security dot1x radius-policy *named-item* server *number*
Tree	server
Range	1 to 5
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

accounting-port *number*

Synopsis	UDP port to contact the RADIUS server for accounting
Context	**configure** system security dot1x radius-policy *named-item* server *number* accounting-port *number*
Tree	accounting-port
Range	1 to 65535
Default	1813
Introduced	25.3.R2

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Platforms	SAR Gen 2

address *ipv4-unicast-address*

Synopsis	IP address of the RADIUS dot1x server
Context	**configure** system security dot1x radius-policy *named-item* server *number* address *ipv4-unicast-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-port *number*

Synopsis	UDP port to contact RADIUS server for authentication
Context	**configure** system security dot1x radius-policy *named-item* server *number* authentication-port *number*
Tree	authentication-port
Range	1 to 65535
Default	1812
Introduced	25.3.R2
Platforms	SAR Gen 2

secret *encrypted-leaf*

Synopsis	Secret key associated with the RADIUS server
Context	**configure** system security dot1x radius-policy *named-item* server *number* secret *encrypted-leaf*
Tree	secret
Description	This command specifies the secret key associated with the RADIUS server in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 110

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Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	RADIUS server type
Context	**configure** system security dot1x radius-policy *named-item* server *number* type *keyword*
Tree	type
Options	authorization, accounting, combined
Default	authorization
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address *ipv4-unicast-address*

Synopsis	Source address of the RADIUS packet
Context	**configure** system security dot1x radius-policy *named-item* source-address *ipv4-unicast-address*
Tree	source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Time to wait for a response from the RADIUS server
Context	**configure** system security dot1x radius-policy *named-item* timeout *number*
Tree	timeout
Range	1 to 90
Units	seconds
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

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ftp-server *boolean*

Synopsis	Enable FTP servers running on the system
Context	**configure** system security ftp-server *boolean*
Tree	ftp-server
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-control

Synopsis	Enter the **hash-control** context
Context	**configure** system security hash-control
Tree	hash-control
Introduced	25.3.R2
Platforms	SAR Gen 2

management-interface

Synopsis	Enter the **management-interface** context
Context	**configure** system security hash-control management-interface
Tree	management-interface
Description	Commands in this context configure encryption parameters for different management interfaces.
Introduced	25.3.R2
Platforms	SAR Gen 2

classic-cli

Synopsis	Enter the **classic-cli** context
Context	**configure** system security hash-control management-interface classic-cli
Tree	classic-cli
Introduced	25.3.R2
Platforms	SAR Gen 2

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read-algorithm *keyword*

Synopsis	Input encryption algorithm for configuration secrets
Context	**configure** system security hash-control management-interface classic-cli read-algorithm *keyword*
Tree	read-algorithm
Description	This command specifies how the protected configuration shared secrets are interpreted and which protected formats are accepted when shared secrets are input into the system or read from a configuration file (for example, at system bootup time). The **all-hash** option specifies that the system accepts any protected format. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
Options	all-hash, hash, hash2, custom, hash3
Default	all-hash
Introduced	25.3.R2
Platforms	SAR Gen 2

write-algorithm *keyword*

Synopsis	Output encryption algorithm for configuration secrets
Context	**configure** system security hash-control management-interface classic-cli write-algorithm *keyword*
Tree	write-algorithm
Description	This command specifies the format of the output for configuration shared secrets (for example, in the saved configuration file, or in the output of the **info** or **show** commands). The **cleartext** keyword specifies that shared secrets are output in cleartext. Nokia does not recommend this option unless access to configuration is strictly controlled. If a primary secret is configured, the default of this command is **hash3**. Otherwise the default is **hash2**. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
Options	cleartext, hash, hash2, custom, hash3
Introduced	25.3.R2
Platforms	SAR Gen 2

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grpc

Synopsis	Enter the **grpc** context
Context	**configure** system security hash-control management-interface grpc
Tree	grpc
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Encryption algorithm for configuration secrets
Context	**configure** system security hash-control management-interface grpc hash-algorithm *keyword*
Tree	hash-algorithm
Description	This command specifies the format of the output for protected configuration shared secrets. The **cleartext** keyword specifies that shared secrets are output in cleartext. Nokia does not recommend this option unless access to configuration is strictly controlled. If a primary secret is configured, the default of this command is **hash3**. Otherwise the default is **hash2**. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
Options	cleartext, hash, hash2, custom, hash3
Introduced	25.3.R2
Platforms	SAR Gen 2

md-cli

Synopsis	Enter the **md-cli** context
Context	**configure** system security hash-control management-interface md-cli
Tree	md-cli
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Encryption algorithm for configuration secrets

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Context	**configure** system security hash-control management-interface md-cli hash-algorithm *keyword*
Tree	hash-algorithm
Description	This command specifies the format of the output for protected configuration shared secrets. The **cleartext** keyword specifies that shared secrets are output in cleartext. Nokia does not recommend this option unless access to configuration is strictly controlled. If a primary secret is configured, the default of this command is **hash3**. Otherwise the default is **hash2**. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
Options	cleartext, hash, hash2, custom, hash3
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf

Synopsis	Enter the **netconf** context
Context	**configure** system security hash-control management-interface netconf
Tree	netconf
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Encryption algorithm for configuration secrets
Context	**configure** system security hash-control management-interface netconf hash-algorithm *keyword*
Tree	hash-algorithm
Description	This command specifies the format of the output for protected configuration shared secrets. The **cleartext** keyword specifies that shared secrets are output in cleartext. Nokia does not recommend this option unless access to configuration is strictly controlled. If a primary secret is configured, the default of this command is **hash3**. Otherwise the default is **hash2**. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
Options	cleartext, hash, hash2, custom, hash3

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Introduced	25.3.R2
Platforms	SAR Gen 2

keychains

Synopsis	Enter the **keychains** context
Context	**configure** system security keychains
Tree	keychains
Description	Commands in this context configure the keychains for the authentication of control protocol peers, such as BGP, IS-IS, LDP, OSPF, and RSVP peers.
Introduced	25.3.R2
Platforms	SAR Gen 2

keychain [keychain-name] *named-item*

Synopsis	Enter the **keychain** list instance
Context	**configure** system security keychains keychain *named-item*
Tree	keychain
Description	Commands in this context configure keychain options.
Introduced	25.3.R2
Platforms	SAR Gen 2

[keychain-name] *named-item*

Synopsis	Keychain name
Context	**configure** system security keychains keychain *named-item*
Tree	keychain
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the keychain
Context	**configure** system security keychains keychain *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

bidirectional

Synopsis	Enter the **bidirectional** context
Context	**configure** system security keychains keychain *named-item* bidirectional
Tree	bidirectional
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [keychain-entry-index] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security keychains keychain *named-item* bidirectional entry *number*
Tree	entry
Description	Commands in this context create a keychain entry, which represents a key configuration to apply to a keychain.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**keychain-entry-index**] *number*

Synopsis	Keychain ID
Context	**configure** system security keychains keychain *named-item* bidirectional entry *number*
Tree	entry
Range	0 to 63 | 255
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the keychain entry
Context	**configure** system security keychains keychain *named-item* bidirectional entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

algorithm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Encryption algorithm used by the keychain key
Context	**configure** system security keychains keychain *named-item* bidirectional entry *number* algorithm *keyword*
Tree	algorithm
Options	aes-128-cmac-96, hmac-sha-1-96, password, message-digest, hmac-md5, hmac-sha-1, hmac-sha-256, aes-128-gcm-16, aes-128-cmac-128, hmac-sha-256-96, hmac-sha-256-128
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Authentication key used by the encryption algorithm

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Context	**configure** system security keychains keychain *named-item* bidirectional entry *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key used by the encryption algorithm to sign and authenticate the protocol packet. If the algorithm is based on AES and the specified key is not the exact length required by the associated algorithm, the following steps are taken, depending on the protocol: • For protocols using TCP-AO (BGP, LDP, and PCEP), the key is processed as described in RFC 4615. All key lengths are valid. • For all other protocols (OSPF, IS-IS, RSVP, NTP, and MACsec), if the key is shorter than the required length, the key is padded with zeros; if it is longer, it is truncated. For algorithms based on AES-128, the required key length is 16 bytes. For algorithms based on AES-256, the required key length is 32 bytes. In all other cases, all key lengths are valid and the specified key is not padded nor truncated. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 110
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-time *date-and-time*

Synopsis	Calendar date and time to start using the key
Context	**configure** system security keychains keychain *named-item* bidirectional entry *number* begin-time *date-and-time*
Tree	begin-time
Description	This command specifies the calendar date and time which this specific key entry becomes active and creates an MKA session. If no date and time is set, the **begin-time** is represented by a date and time string with all NULLs and the key is not valid.
Introduced	25.3.R2
Platforms	SAR Gen 2

option *keyword*

Synopsis	Keychain key option

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Context	**configure** system security keychains keychain *named-item* bidirectional entry *number* option *keyword*
Tree	option
Options	none, basic, isis-enhanced
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

tolerance *(number | keyword)*

Synopsis	Time eligible receive key overlaps with active send key
Context	**configure** system security keychains keychain *named-item* bidirectional entry *number* tolerance *(number | keyword)*
Tree	tolerance
Range	0 to 4294967294
Units	seconds
Options	infinite
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security keychains keychain *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

macsec

Synopsis	Enter the **macsec** context
Context	**configure** system security keychains keychain *named-item* macsec

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Tree	macsec
Description	Commands in this context configure the key entries for the MACsec keychain.
Introduced	25.10.R1
Platforms	SAR Gen 2

entry [keychain-entry-index] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security keychains keychain *named-item* macsec entry *number*
Tree	entry
Description	Commands in this context configure a specific key entry in the keychain. Entries are defined by an entry ID. Each MACsec key entry creates a dedicated MKA for that key entry. MKA uses the key entry's CAK and its encryption algorithm to secure the SAK between peers. The MACsec key entry with an ID of 0 can be configured with a tolerance of forever and can be used as a backup key entry. If at the begin time of any key entry there is a problem with establishing MKA, the keychain may fallback to the backup key entry.
Introduced	25.10.R1
Platforms	SAR Gen 2

[**keychain-entry-index**] *number*

Synopsis	Keychain ID
Context	**configure** system security keychains keychain *named-item* macsec entry *number*
Tree	entry
Range	0 to 63
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the keychain entry
Context	**configure** system security keychains keychain *named-item* macsec entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	enable
Introduced	25.10.R1
Platforms	SAR Gen 2

algorithm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Encryption algorithm used by the keychain key
Context	**configure** system security keychains keychain *named-item* macsec entry *number* algorithm *keyword*
Tree	algorithm
Options	aes-128-cmac-128 – Algorithm based on AES-CMAC and key size of 128 bits aes-256-cmac-256 – Algorithm based on AES-CMAC and key size of 256 bits
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

begin-time *date-and-time*

Synopsis	Calendar date and time to start using the key
Context	**configure** system security keychains keychain *named-item* macsec entry *number* begin-time *date-and-time*
Tree	begin-time
Description	This command specifies the calendar date and time which this specific key entry becomes active and creates an MKA session. If no date and time is set, the **begin-time** is represented by a date and time string with all NULLs and the key is not valid.
Introduced	25.10.R1
Platforms	SAR Gen 2

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cak *encrypted-leaf-hex-without-prefix*

WARNING:
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Synopsis	CAK used by the encryption algorithm
Context	**configure** system security keychains keychain *named-item* macsec entry *number* cak *encrypted-leaf-hex-without-prefix*
Tree	cak
Description	This command configures the CAK to be used by the encryption algorithm.
String length	1 to 126
String format	'encrypted-leaf-hex-without-prefix' must have clear text in hex without 0x or end with hash/hash2/hash3/custom
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

cak-name *cak-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	CAK name
Context	**configure** system security keychains keychain *named-item* macsec entry *number* cak-name *cak-name*
Tree	cak-name
String length	1 to 64
String format	'cak-name' must be even-length hex up to 64 characters (e.g. 0a1b2c)
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

tolerance *(number | keyword)*

Synopsis	Time a receive key should overlap with active send key

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Context	**configure** system security keychains keychain *named-item* macsec entry *number* tolerance *(number | keyword)*
Tree	tolerance
Description	This command configures the amount of time that the key entry MKA session can overlap with the newly active key entry MKA session. The current key entry MKA session is established up to the tolerance time but is not the principle (encrypting) MKA if the new key entry MKA session is established.
Range	20 to 4294967294
Units	seconds
Options	infinite
Default	300
Introduced	25.10.R1
Platforms	SAR Gen 2

receive

Synopsis	Enter the **receive** context
Context	**configure** system security keychains keychain *named-item* receive
Tree	receive
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [keychain-entry-index] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security keychains keychain *named-item* receive entry *number*
Tree	entry
Description	Commands in this context create a keychain entry, which represents a key configuration to apply to a keychain.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**keychain-entry-index**] *number*

Synopsis	Keychain ID
Context	**configure** system security keychains keychain *named-item* receive entry *number*

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Tree	entry
Range	0 to 63 | 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the keychain entry
Context	**configure** system security keychains keychain *named-item* receive entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

algorithm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Encryption algorithm used by the keychain key
Context	**configure** system security keychains keychain *named-item* receive entry *number* algorithm *keyword*
Tree	algorithm
Options	aes-128-cmac-96, hmac-sha-1-96, password, message-digest, hmac-md5, hmac-sha-1, hmac-sha-256, aes-128-gcm-16, aes-128-cmac-128, hmac-sha-256-96, hmac-sha-256-128
Introduced	25.3.R2
Platforms	SAR Gen 2

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authentication-key *encrypted-leaf*

WARNING:
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Synopsis	Authentication key used by the encryption algorithm
Context	**configure** system security keychains keychain *named-item* receive entry *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key used by the encryption algorithm to sign and authenticate the protocol packet. If the algorithm is based on AES and the specified key is not the exact length required by the associated algorithm, the following steps are taken, depending on the protocol: • For protocols using TCP-AO (BGP, LDP, and PCEP), the key is processed as described in RFC 4615. All key lengths are valid. • For all other protocols (OSPF, IS-IS, RSVP, NTP, and MACsec), if the key is shorter than the required length, the key is padded with zeros; if it is longer, it is truncated. For algorithms based on AES-128, the required key length is 16 bytes. For algorithms based on AES-256, the required key length is 32 bytes. In all other cases, all key lengths are valid and the specified key is not padded nor truncated. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 110
Introduced	25.3.R2
Platforms	SAR Gen 2

begin-time *date-and-time*

Synopsis	Calendar date and time to start using the key
Context	**configure** system security keychains keychain *named-item* receive entry *number* begin-time *date-and-time*
Tree	begin-time
Description	This command specifies the calendar date and time which this specific key entry becomes active and creates an MKA session. If no date and time is set, the **begin-time** is represented by a date and time string with all NULLs and the key is not valid.

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Introduced	25.3.R2
Platforms	SAR Gen 2

end-time *date-and-time*

Synopsis	Calendar date and time when system stops using the key
Context	**configure** system security keychains keychain *named-item* receive entry *number* end-time *date-and-time*
Tree	end-time
Introduced	25.3.R2
Platforms	SAR Gen 2

tolerance *(number | keyword)*

Synopsis	Time eligible receive key overlaps with active send key
Context	**configure** system security keychains keychain *named-item* receive entry *number* tolerance *(number | keyword)*
Tree	tolerance
Range	0 to 4294967294
Units	seconds
Options	infinite
Default	300
Introduced	25.3.R2
Platforms	SAR Gen 2

send

Synopsis	Enter the **send** context
Context	**configure** system security keychains keychain *named-item* send
Tree	send
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [keychain-entry-index] *number*

Synopsis	Enter the **entry** list instance

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Context	**configure** system security keychains keychain *named-item* send entry *number*
Tree	entry
Description	Commands in this context create a keychain entry, which represents a key configuration to apply to a keychain.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**keychain-entry-index**] *number*

Synopsis	Keychain ID
Context	**configure** system security keychains keychain *named-item* send entry *number*
Tree	entry
Range	0 to 63 | 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the keychain entry
Context	**configure** system security keychains keychain *named-item* send entry *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

algorithm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Encryption algorithm used by the keychain key

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Context	**configure** system security keychains keychain *named-item* send entry *number* algorithm *keyword*
Tree	algorithm
Options	aes-128-cmac-96, hmac-sha-1-96, password, message-digest, hmac-md5, hmac-sha-1, hmac-sha-256, aes-128-gcm-16, aes-128-cmac-128, hmac-sha-256-96, hmac-sha-256-128
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key *encrypted-leaf*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Authentication key used by the encryption algorithm
Context	**configure** system security keychains keychain *named-item* send entry *number* authentication-key *encrypted-leaf*
Tree	authentication-key
Description	This command configures the authentication key used by the encryption algorithm to sign and authenticate the protocol packet. If the algorithm is based on AES and the specified key is not the exact length required by the associated algorithm, the following steps are taken, depending on the protocol: • For protocols using TCP-AO (BGP, LDP, and PCEP), the key is processed as described in RFC 4615. All key lengths are valid. • For all other protocols (OSPF, IS-IS, RSVP, NTP, and MACsec), if the key is shorter than the required length, the key is padded with zeros; if it is longer, it is truncated. For algorithms based on AES-128, the required key length is 16 bytes. For algorithms based on AES-256, the required key length is 32 bytes. In all other cases, all key lengths are valid and the specified key is not padded nor truncated. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 110
Introduced	25.3.R2
Platforms	SAR Gen 2

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begin-time *date-and-time*

Synopsis	Calendar date and time to start using the key
Context	**configure** system security keychains keychain *named-item* send entry *number* begin-time *date-and-time*
Tree	begin-time
Description	This command specifies the calendar date and time which this specific key entry becomes active and creates an MKA session. If no date and time is set, the **begin-time** is represented by a date and time string with all NULLs and the key is not valid.
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-option-number

Synopsis	Enter the **tcp-option-number** context
Context	**configure** system security keychains keychain *named-item* tcp-option-number
Tree	tcp-option-number
Introduced	25.3.R2
Platforms	SAR Gen 2

receive *keyword*

Synopsis	TCP option accepted in received TCP packets
Context	**configure** system security keychains keychain *named-item* tcp-option-number receive *keyword*
Tree	receive
Options	option-253, option-254, both, tcp-ao
Default	option-254
Introduced	25.3.R2
Platforms	SAR Gen 2

send *keyword*

Synopsis	TCP option accepted in sent TCP packets

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Context	**configure** system security keychains keychain *named-item* tcp-option-number send *keyword*
Tree	send
Options	option-253, option-254, tcp-ao
Default	option-254
Introduced	25.3.R2
Platforms	SAR Gen 2

management

Synopsis	Enter the **management** context
Context	**configure** system security management
Tree	management
Description	Commands in this context control which management protocols can be used to access the SR OS router via the 'Base' and 'management' router instances.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ftp *boolean*

Synopsis	Allow access to the FTP server
Context	**configure** system security management allow-ftp *boolean*
Tree	allow-ftp
Description	When configured to **true**, this command allows FTP access to the SR OS router via the 'Base' and 'management' router instances. When configured to **false**, this command disallows access to the SR OS FTP server.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-grpc *boolean*

Synopsis	Allow access to the gRPC server
Context	**configure** system security management allow-grpc *boolean*
Tree	allow-grpc

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Description	When configured to **true**, the system allows access to the gRPC server via the 'Base' and 'management' router instances.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-netconf *boolean*

Synopsis	Allow access to the NETCONF server
Context	**configure** system security management allow-netconf *boolean*
Tree	allow-netconf
Description	When configured to **true**, the system allows NETCONF server access to the SR OS router via the 'Base' and 'management' router instances.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ssh *boolean*

Synopsis	Allow access to the SSH server
Context	**configure** system security management allow-ssh *boolean*
Tree	allow-ssh
Description	When configured to **true**, this command allows SSH server access to the SR OS router via the 'Base' and 'management' router instances. When configured to **false**, this command disallows SSH server access.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-telnet *boolean*

Synopsis	Allow access to the IPv4 Telnet server
Context	**configure** system security management allow-telnet *boolean*
Tree	allow-telnet
Description	When configured to **true**, the system allows IPv4 Telnet server access to the SR OS router via the 'Base' and 'management' router instances.

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When configured to **false**, access to the IPv4 Telnet server is not allowed.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

allow-telnet6 *boolean*

Synopsis Allow access to the Telnet IPv6 server

Context **configure** system security management allow-telnet6 *boolean*

Tree allow-telnet6

Description When configured to **true**, the system allows IPv6 Telnet server access to the SR OS router via the 'Base' and 'management' router instances.

When configured to **false**, the system prevents access to the IPv6 Telnet server.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

management-access-filter

Synopsis Enter the **management-access-filter** context

Context **configure** system security management-access-filter

Tree management-access-filter

Description Commands in this context configure the attributes for management access filters.

Management access filters control all traffic in and out of the CPM. The filters can be used to restrict management of the router by other nodes outside of specific networks (or sub-networks) or through designated ports.

Management filters are enforced by the system software.

Introduced 25.3.R2

Platforms SAR Gen 2

ip-filter

Synopsis Enter the **ip-filter** context

Context **configure** system security management-access-filter ip-filter

Tree ip-filter

Introduced 25.3.R2

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Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of management-access filters
Context	**configure** system security management-access-filter ip-filter admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Default action for the management access filter
Context	**configure** system security management-access-filter ip-filter default-action *keyword*
Tree	default-action
Description	This command specifies the default action for management access in the absence of a specific management access filter match.
Options	ignore-match, accept, drop, reject
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security management-access-filter ip-filter entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Entry ID to identify the match criteria and the action

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Context	**configure** system security management-access-filter ip-filter entry *number*
Tree	entry
Description	This command specifies the entry ID to identify the match criteria and the corresponding action. It is recommended that entries are numbered in staggered increments. This allows users to insert a new entry in an existing policy without having to renumber the existing entries.
Range	1 to 9999
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action associated with the management access filter
Context	**configure** system security management-access-filter ip-filter entry *number* action *keyword*
Tree	action
Description	This command specifies the action associated with the management access filter match criteria entry. If the packet does not meet any of the match criteria, the configured default action is applied.
Options	ignore-match, accept, drop, reject
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security management-access-filter ip-filter entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

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log-events *boolean*

Synopsis	Enable match logging
Context	**configure** system security management-access-filter ip-filter entry *number* log-events *boolean*
Tree	log-events
Description	When configured to **true**, this command enables match logging. When enabled, matches on the entry cause the Security event mafEntryMatch to be raised. When configured to **false**, match logging is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** system security management-access-filter ip-filter entry *number* match
Tree	match
Description	Commands in this context specify match criteria for the entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enable the **dst-port** context
Context	**configure** system security management-access-filter ip-filter entry *number* match dst-port
Tree	dst-port
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	IP address mask as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match dst-port mask *number*

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Tree	mask
Range	1 to 65535
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP or UDP port number as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match dst-port port *number*
Tree	port
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mgmt-port

Synopsis	Enter the **mgmt-port** context
Context	**configure** system security management-access-filter ip-filter entry *number* match mgmt-port
Tree	mgmt-port
Description	Commands in this context specify match criteria based on the Ethernet port.
Introduced	25.3.R2
Platforms	SAR Gen 2

cpm

Synopsis	Match any traffic received on any Ethernet port
Context	**configure** system security management-access-filter ip-filter entry *number* match mgmt-port cpm
Tree	cpm
Notes	The following elements are part of a choice: **cpm**, (**lag** and **lag-id**), or **port-id**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lag *lag-interface*

Synopsis	LAG ID as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match mgmt-port lag *lag-interface*
Tree	lag
String length	1 to 27
String format	'lag-interface' must be lag- followed by number 1-800 or up to 23 chars (e.g. lag-1 or lag-my-lag)
Notes	The following elements are part of a choice: **cpm**, (**lag** and **lag-id**), or **port-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id *port*

Synopsis	Port ID as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match mgmt-port port-id *port*
Tree	port-id
Notes	The following elements are part of a choice: **cpm**, (**lag** and **lag-id**), or **port-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *(number | keyword)*

Synopsis	IP protocol as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match protocol *(number | keyword)*
Tree	protocol
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

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router-instance *string*

Synopsis	Router instance as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match router-instance *string*
Tree	router-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** system security management-access-filter ip-filter entry *number* match src-ip
Tree	src-ip
Description	Commands in this context specify match criteria based on the source IP address.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-prefix | ipv4-address)*

Synopsis	IP address or IP prefix as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match src-ip address *(ipv4-prefix | ipv4-address)*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ip-prefix-list *reference*

Synopsis	IP prefix list as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match src-ip ip-prefix-list *reference*
Tree	ip-prefix-list

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Reference	**configure** filter match-list ip-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv4-address*

Synopsis	IP address mask as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match src-ip mask *ipv4-address*
Tree	mask
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: (**address** and **mask**) or **ip-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enable the **src-port** context
Context	**configure** system security management-access-filter ip-filter entry *number* match src-port
Tree	src-port
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	IP address mask as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match src-port mask *number*
Tree	mask
Range	1 to 65535
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

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port *number*

Synopsis	TCP or UDP port number as the match criterion
Context	**configure** system security management-access-filter ip-filter entry *number* match src-port port *number*
Tree	port
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-filter

Synopsis	Enter the **ipv6-filter** context
Context	**configure** system security management-access-filter ipv6-filter
Tree	ipv6-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of management-access filters
Context	**configure** system security management-access-filter ipv6-filter admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Default action for the management access filter
Context	**configure** system security management-access-filter ipv6-filter default-action *keyword*
Tree	default-action

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Description	This command specifies the default action for management access in the absence of a specific management access filter match.
Options	ignore-match, accept, drop, reject
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security management-access-filter ipv6-filter entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Entry ID to identify the match criteria and the action
Context	**configure** system security management-access-filter ipv6-filter entry *number*
Tree	entry
Description	This command specifies the entry ID to identify the match criteria and the corresponding action. It is recommended that entries are numbered in staggered increments. This allows users to insert a new entry in an existing policy without having to renumber the existing entries.
Range	1 to 9999
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action associated with the management access filter
Context	**configure** system security management-access-filter ipv6-filter entry *number* action *keyword*
Tree	action
Description	This command specifies the action associated with the management access filter match criteria entry.

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If the packet does not meet any of the match criteria, the configured default action is applied.

Options	ignore-match, accept, drop, reject
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security management-access-filter ipv6-filter entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

log-events *boolean*

Synopsis	Enable match logging
Context	**configure** system security management-access-filter ipv6-filter entry *number* log-events *boolean*
Tree	log-events
Description	When configured to **true**, this command enables match logging. When enabled, matches on the entry cause the Security event mafEntryMatch to be raised. When configured to **false**, match logging is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** system security management-access-filter ipv6-filter entry *number* match
Tree	match

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Description	Commands in this context specify match criteria for the entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-port

Synopsis	Enable the **dst-port** context
Context	**configure** system security management-access-filter ipv6-filter entry *number* match dst-port
Tree	dst-port
Description	Commands in this context specify match criteria based on the destination port.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	IP address mask as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match dst-port mask *number*
Tree	mask
Range	1 to 65535
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP or UDP port number as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match dst-port port *number*
Tree	port
Range	1 to 65535
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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flow-label *number*

Synopsis	Flow identifier used to discriminate traffic flows
Context	**configure** system security management-access-filter ipv6-filter entry *number* match flow-label *number*
Tree	flow-label
Range	0 to 1048575
Introduced	25.3.R2
Platforms	SAR Gen 2

mgmt-port

Synopsis	Enter the **mgmt-port** context
Context	**configure** system security management-access-filter ipv6-filter entry *number* match mgmt-port
Tree	mgmt-port
Description	Commands in this context specify match criteria based on the Ethernet port.
Introduced	25.3.R2
Platforms	SAR Gen 2

cpm

Synopsis	Match any traffic received on any Ethernet port
Context	**configure** system security management-access-filter ipv6-filter entry *number* match mgmt-port cpm
Tree	cpm
Notes	The following elements are part of a choice: **cpm**, (**lag** and **lag-id**), or **port-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lag *lag-interface*

Synopsis	LAG ID as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match mgmt-port lag *lag-interface*
Tree	lag

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String length	1 to 27
String format	'lag-interface' must be lag- followed by number 1-800 or up to 23 chars (e.g. lag-1 or lag-my-lag)
Notes	The following elements are part of a choice: **cpm**, (**lag** and **lag-id**), or **port-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

port-id *port*

Synopsis	Port ID as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match mgmt-port port-id *port*
Tree	port-id
Notes	The following elements are part of a choice: **cpm**, (**lag** and **lag-id**), or **port-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

next-header *(number | keyword)*

Synopsis	IP protocol to match
Context	**configure** system security management-access-filter ipv6-filter entry *number* match next-header *(number | keyword)*
Tree	next-header
Range	0 to 255
Options	tcp-udp, icmp, igmp, ip, tcp, egp, igp, udp, rdp, ipv6, ipv6-route, ipv6-frag, idrp, rsvp, gre, ipv6-icmp, ipv6-no-nxt, ipv6-opts, iso-ip, eigrp, ospf-igp, ether-ip, encap, pnni, pim, vrrp, l2tp, stp, ptp, isis, crtp, crudp, sctp
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router instance as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match router-instance *string*
Tree	router-instance
Introduced	25.3.R2

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Platforms	SAR Gen 2

src-ip

Synopsis	Enter the **src-ip** context
Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-ip
Tree	src-ip
Description	Commands in this context specify match criteria based on the source port.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv6-prefix | ipv6-address)*

Synopsis	IPv6 address or IPv6 prefix to match
Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-ip address *(ipv6-prefix | ipv6-address)*
Tree	address
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-prefix-list *reference*

Synopsis	IPv6 prefix list as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-ip ipv6-prefix-list *reference*
Tree	ipv6-prefix-list
Reference	**configure** filter match-list ipv6-prefix-list *named-item*
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *ipv6-address*

Synopsis	IP address mask as the match criterion

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Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-ip mask *ipv6-address*
Tree	mask
Notes	The following elements are part of a choice: (**address** and **mask**) or **ipv6-prefix-list**.
Introduced	25.3.R2
Platforms	SAR Gen 2

src-port

Synopsis	Enable the **src-port** context
Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-port
Tree	src-port
Description	Commands in this context specify match criteria based on the source port.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	IP address mask as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-port mask *number*
Tree	mask
Range	1 to 65535
Default	65535
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP or UDP port number as the match criterion
Context	**configure** system security management-access-filter ipv6-filter entry *number* match src-port port *number*
Tree	port
Range	1 to 65535
Notes	This element is mandatory.

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Introduced	25.3.R2
Platforms	SAR Gen 2

mac-filter

Synopsis	Enter the **mac-filter** context
Context	**configure** system security management-access-filter mac-filter
Tree	mac-filter
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of management access MAC filter
Context	**configure** system security management-access-filter mac-filter admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

default-action *keyword*

Synopsis	Default action for the management access filter
Context	**configure** system security management-access-filter mac-filter default-action *keyword*
Tree	default-action
Description	This command specifies the default action for management access in the absence of a specific management access filter match.
Options	ignore-match, accept, drop
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security management-access-filter mac-filter entry *number*
Tree	entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Entry ID to identify the match criteria and the action
Context	**configure** system security management-access-filter mac-filter entry *number*
Tree	entry
Description	This command specifies the entry ID to identify the match criteria and the corresponding action. It is recommended that entries are numbered in staggered increments. This allows users to insert a new entry in an existing policy without having to renumber the existing entries.
Range	1 to 9999
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

action *keyword*

Synopsis	Action associated with the management access filter
Context	**configure** system security management-access-filter mac-filter entry *number* action *keyword*
Tree	action
Description	This command specifies the action associated with the management access filter match criteria entry. If the packet does not meet any of the match criteria, the configured default action is applied.
Options	ignore-match, accept, drop
Default	ignore-match
Introduced	25.3.R2
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** system security management-access-filter mac-filter entry *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

log-events *boolean*

Synopsis	Enable match logging
Context	**configure** system security management-access-filter mac-filter entry *number* log-events *boolean*
Tree	log-events
Description	When configured to **true**, this command enables match logging. When enabled, matches on the entry cause the Security event mafEntryMatch to be raised. When configured to **false**, match logging is disabled.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

match

Synopsis	Enter the **match** context
Context	**configure** system security management-access-filter mac-filter entry *number* match
Tree	match
Description	Commands in this context specify match criteria for the entry.
Introduced	25.3.R2
Platforms	SAR Gen 2

cfm-opcode

Synopsis	Enter the **cfm-opcode** context

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Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode
Tree	cfm-opcode
Description	Commands in this context specify match criteria based on the CFM opcode.
Introduced	25.3.R2
Platforms	SAR Gen 2

eq *number*

Synopsis	Equal to comparison operator for the CFM opcode
Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode eq *number*
Tree	eq
Range	0 to 255
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

gt *number*

Synopsis	Greater than comparison operator for the CFM opcode
Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode gt *number*
Tree	gt
Range	0 to 254
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

lt *number*

Synopsis	Less than comparison operator for the CFM opcode
Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode lt *number*
Tree	lt
Range	1 to 255

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Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

range

Synopsis	Enable the **range** context
Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode range
Tree	range
Notes	The following elements are part of a choice: **eq**, **gt**, **lt**, or **range**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end *number*

Synopsis	Upper bound of the range for the OpCode to match
Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode range end *number*
Tree	end
Range	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

start *number*

Synopsis	Lower bound of the range for the OpCode to match
Context	**configure** system security management-access-filter mac-filter entry *number* match cfm-opcode range start *number*
Tree	start
Range	0 to 254
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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dot1p

Synopsis	Enable the **dot1p** context
Context	**configure** system security management-access-filter mac-filter entry *number* match dot1p
Tree	dot1p
Description	Commands in this context specify match criteria based on the IEEE 802.1p value.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	3-bit mask as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match dot1p mask *number*
Tree	mask
Range	1 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

priority *number*

Synopsis	IEEE 802.1p value as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match dot1p priority *number*
Tree	priority
Range	0 to 7
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

dst-mac

Synopsis	Enable the **dst-mac** context

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Context	**configure** system security management-access-filter mac-filter entry *number* match dst-mac
Tree	dst-mac
Description	Commands in this context specify match criteria based on the destination MAC.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *mac-address*

Synopsis	MAC address used as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match dst-mac address *mac-address*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *mac-address*

Synopsis	MAC address mask as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match dst-mac mask *mac-address*
Tree	mask
Default	ff:ff:ff:ff:ff:ff
Introduced	25.3.R2
Platforms	SAR Gen 2

etype *etype-value*

Synopsis	Ethernet type II Ethertype value as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match etype *etype-value*
Tree	etype
Description	This command specifies an Ethernet type II Ethertype value to be used as a MAC filter match criterion. The Ethernet type field is used by the Ethernet version-II frames and does not apply to IEEE 802.3 Ethernet frames.

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String length	5 to 6
String format	'etype-value' must be 0x0600-0xFFFF (e-type range)
Introduced	25.3.R2
Platforms	SAR Gen 2

frame-type *keyword*

Synopsis	MAC frame type as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match frame-type *keyword*
Tree	frame-type
Options	802dot3, 802dot2-llc, 802dot2-snap, ethernet-ii, 802dot1-ag
Default	802dot3
Introduced	25.3.R2
Platforms	SAR Gen 2

llc-dsap

Synopsis	Enable the **llc-dsap** context
Context	**configure** system security management-access-filter mac-filter entry *number* match llc-dsap
Tree	llc-dsap
Description	Commands in this context specify match criteria based on the Destination Service Access Point (DSAP).
Introduced	25.3.R2
Platforms	SAR Gen 2

dsap *number*

Synopsis	8-bit DSAP as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match llc-dsap dsap *number*
Tree	dsap
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2

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Platforms	SAR Gen 2

mask *number*

Synopsis	Mask for DSAP value as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match llc-dsap mask *number*
Tree	mask
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

llc-ssap

Synopsis	Enable the **llc-ssap** context
Context	**configure** system security management-access-filter mac-filter entry *number* match llc-ssap
Tree	llc-ssap
Description	Commands in this context specify match criteria based on the Source Service Access Point (SSAP).
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *number*

Synopsis	Mask for SSAP value as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match llc-ssap mask *number*
Tree	mask
Range	1 to 255
Default	255
Introduced	25.3.R2
Platforms	SAR Gen 2

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ssap *number*

Synopsis	8-bit SSAP as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match llc-ssap ssap *number*
Tree	ssap
Range	0 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

service *service-name*

Synopsis	Service ID used as the match condition
Context	**configure** system security management-access-filter mac-filter entry *number* match service *service-name*
Tree	service
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

snap-oui *keyword*

Synopsis	IEEE 802.3 LLC SNAP Ethernet Frame OUI value for match
Context	**configure** system security management-access-filter mac-filter entry *number* match snap-oui *keyword*
Tree	snap-oui
Description	This command specifies the IEEE 802.3 LLC SNAP Ethernet Frame OUI value as the MAC filter match criterion.
Options	zero, non-zero
Introduced	25.3.R2
Platforms	SAR Gen 2

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snap-pid *number*

Synopsis	IEEE 802.3 LLC SNAP Ethernet Frame PID as the match
Context	**configure** system security management-access-filter mac-filter entry *number* match snap-pid *number*
Tree	snap-pid
Description	This command specifies an IEEE 802.3 LLC SNAP Ethernet Frame PID value used as the MAC filter match criterion. The SNAP PID match criterion is independent of the OUI field within the SNAP header. Two packets with different 3-byte OUI fields but the same PID field match the same filter entry based on a SNAP PID match criterion.
Range	0 to 65535
Introduced	25.3.R2
Platforms	SAR Gen 2

src-mac

Synopsis	Enable the **src-mac** context
Context	**configure** system security management-access-filter mac-filter entry *number* match src-mac
Tree	src-mac
Description	Commands in this context specify match criteria based on the source MAC.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *mac-address*

Synopsis	MAC address used as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match src-mac address *mac-address*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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mask *mac-address*

Synopsis	MAC address mask as the match criterion
Context	**configure** system security management-access-filter mac-filter entry *number* match src-mac mask *mac-address*
Tree	mask
Default	ff:ff:ff:ff:ff:ff
Introduced	25.3.R2
Platforms	SAR Gen 2

pki

Synopsis	Enter the **pki** context
Context	**configure** system security pki
Tree	pki
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile [ca-profile-name] *named-item*

Synopsis	Enter the **ca-profile** list instance
Context	**configure** system security pki ca-profile *named-item*
Tree	ca-profile
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile-name**] *named-item*

Synopsis	CA profile name
Context	**configure** system security pki ca-profile *named-item*
Tree	ca-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the CA profile
Context	**configure** system security pki ca-profile *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

auto-crl-update

Synopsis	Enable the **auto-crl-update** context
Context	**configure** system security pki ca-profile *named-item* auto-crl-update
Tree	auto-crl-update
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the automatic CRL update
Context	**configure** system security pki ca-profile *named-item* auto-crl-update admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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crl-urls

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **crl-urls** context
Context	**configure** system security pki ca-profile *named-item* auto-crl-update crl-urls
Tree	crl-urls
Introduced	25.3.R2
Platforms	SAR Gen 2

url-entry [entry-id] *number*

Synopsis	Enter the **url-entry** list instance
Context	**configure** system security pki ca-profile *named-item* auto-crl-update crl-urls url-entry *number*
Tree	url-entry
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	URL on this system
Context	**configure** system security pki ca-profile *named-item* auto-crl-update crl-urls url-entry *number*
Tree	url-entry
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

transmission-profile *reference*

Synopsis	File transmission profile to update CRL
Context	**configure** system security pki ca-profile *named-item* auto-crl-update crl-urls url-entry *number* transmission-profile *reference*

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Tree	transmission-profile
Reference	**configure** system transmission-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

url *http-url-path-loose*

Synopsis	Location of updated CRL
Context	**configure** system security pki ca-profile *named-item* auto-crl-update crl-urls url-entry *number* url *http-url-path-loose*
Tree	url
String length	1 to 180
String format	'http-url-loose' must be http:// with host and optional port and path (e.g. http://hostname.domain/path) 'http-url-path-loose' must include path after host (e.g. http://host/path)
Introduced	25.3.R2
Platforms	SAR Gen 2

periodic-update-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval between two consecutive CRL updates
Context	**configure** system security pki ca-profile *named-item* auto-crl-update periodic-update-interval *number*
Tree	periodic-update-interval
Range	3600 to 31622400
Units	seconds
Default	86400
Introduced	25.3.R2
Platforms	SAR Gen 2

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pre-update-time *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Time prior to the next update time of the current CRL
Context	**configure** system security pki ca-profile *named-item* auto-crl-update pre-update-time *number*
Tree	pre-update-time
Range	0 to 31622400
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-interval *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Interval before retrying to update CRL
Context	**configure** system security pki ca-profile *named-item* auto-crl-update retry-interval *number*
Tree	retry-interval
Range	0 to 31622400
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

schedule-type *keyword*

WARNING:
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Synopsis	Time scheduler type for an automated CRL update
Context	**configure** system security pki ca-profile *named-item* auto-crl-update schedule-type *keyword*
Tree	schedule-type
Options	next-update-based, periodic
Default	next-update-based
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-file *pki-file-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Certificate file name
Context	**configure** system security pki ca-profile *named-item* cert-file *pki-file-name*
Tree	cert-file
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

cmpv2

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **cmpv2** context
Context	**configure** system security pki ca-profile *named-item* cmpv2
Tree	cmpv2
Description	Commands in this context configure CMPv2 options.
Introduced	25.3.R2
Platforms	SAR Gen 2

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accept-unprotected-message

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **accept-unprotected-message** context
Context	**configure** system security pki ca-profile *named-item* cmpv2 accept-unprotected-message
Tree	accept-unprotected-message
Introduced	25.3.R2
Platforms	SAR Gen 2

error-message *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept unprotected error messages
Context	**configure** system security pki ca-profile *named-item* cmpv2 accept-unprotected-message error-message *boolean*
Tree	error-message
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

pkiconf-message *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Accept unprotected PKI confirmation messages
Context	**configure** system security pki ca-profile *named-item* cmpv2 accept-unprotected-message pkiconf-message *boolean*
Tree	pkiconf-message
Default	false

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Introduced	25.3.R2
Platforms	SAR Gen 2

always-set-sender-for-ir *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Set subject name in CMPv2 header for all IR messages
Context	**configure** system security pki ca-profile *named-item* cmpv2 always-set-sender-for-ir *boolean*
Tree	always-set-sender-for-ir
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

http

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **http** context
Context	**configure** system security pki ca-profile *named-item* cmpv2 http
Tree	http
Introduced	25.3.R2
Platforms	SAR Gen 2

response-timeout *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	HTTP response timeout
Context	**configure** system security pki ca-profile *named-item* cmpv2 http response-timeout *number*

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Tree	response-timeout
Range	1 to 3600
Units	seconds
Default	30
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	HTTP version for CMPv2 messages
Context	**configure** system security pki ca-profile *named-item* cmpv2 http version *keyword*
Tree	version
Options	1.0, 1.1
Default	1.1
Introduced	25.3.R2
Platforms	SAR Gen 2

key-list

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **key-list** context
Context	**configure** system security pki ca-profile *named-item* cmpv2 key-list
Tree	key-list
Introduced	25.3.R2
Platforms	SAR Gen 2

key [reference-number] *display-string*

Synopsis	Enter the **key** list instance

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Context	**configure** system security pki ca-profile *named-item* cmpv2 key-list key *display-string*
Tree	key
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**reference-number**] *display-string*

Synopsis	Unique identifier for the CA initial authentication key
Context	**configure** system security pki ca-profile *named-item* cmpv2 key-list key *display-string*
Tree	key
String length	1 to 64
String format	'reference-number' must not be all spaces
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

password *encrypted-leaf*

Synopsis	Shared secret for this CA initial authentication key
Context	**configure** system security pki ca-profile *named-item* cmpv2 key-list key *display-string* password *encrypted-leaf*
Tree	password
Description	This command specifies the shared secret for this CA initial authentication key in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

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recipient-subject *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	DN attributes for recipient subject of CMPv2 requests
Context	**configure** system security pki ca-profile *named-item* cmpv2 recipient-subject *string*
Tree	recipient-subject
String length	1 to 256
Notes	The following elements are part of a choice: **recipient-subject** or **use-ca-subject**.
Introduced	25.3.R2
Platforms	SAR Gen 2

response-signing-cert *pki-file-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	File name of the certificate to verify CMPv2 responses
Context	**configure** system security pki ca-profile *named-item* cmpv2 response-signing-cert *pki-file-name*
Tree	response-signing-cert
Description	This command specifies an imported certificate used to verify the CMP response message that they are protected by signature. When unconfigured, CA's certificate is used.
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	The following elements are part of a choice: **response-signing-cert** or **response-signing-use-extracert**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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response-signing-use-extracert

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Use extraCerts certificate to verify response signature
Context	**configure** system security pki ca-profile *named-item* cmpv2 response-signing-use-extracert
Tree	response-signing-use-extracert
Notes	The following elements are part of a choice: **response-signing-cert** or **response-signing-use-extracert**.
Introduced	25.3.R2
Platforms	SAR Gen 2

same-recipient-nonce-for-poll-request *boolean*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Use same recipNonce as last CMPv2 response
Context	**configure** system security pki ca-profile *named-item* cmpv2 same-recipient-nonce-for-poll-request *boolean*
Tree	same-recipient-nonce-for-poll-request
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

signing-cert-subject *string*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Subject DN attributes to identify signing certificate
Context	**configure** system security pki ca-profile *named-item* cmpv2 signing-cert-subject *string*
Tree	signing-cert-subject

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String length	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

url

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **url** context
Context	**configure** system security pki ca-profile *named-item* cmpv2 url
Tree	url
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** system security pki ca-profile *named-item* cmpv2 url service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Notes	The following elements are part of a choice: **service-name** or **transmission-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

transmission-profile *reference*

WARNING:
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Synopsis	Transmission profile for CMPv2
Context	**configure** system security pki ca-profile *named-item* cmpv2 url transmission-profile *reference*
Tree	transmission-profile
Reference	**configure** system transmission-profile *named-item*
Notes	The following elements are part of a choice: **service-name** or **transmission-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

url-string *http-optional-url-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	URL for CMPv2
Context	**configure** system security pki ca-profile *named-item* cmpv2 url url-string *http-optional-url-loose*
Tree	url-string
String length	1 to 180
String format	'http-optional-url-loose' must be http:// or host-only, with optional port and path (e.g. http://hostname.domain/path)
Introduced	25.3.R2
Platforms	SAR Gen 2

use-ca-subject

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Use subject DN in CA certificate as CMPv2 request recipient
Context	**configure** system security pki ca-profile *named-item* cmpv2 use-ca-subject
Tree	use-ca-subject
Notes	The following elements are part of a choice: **recipient-subject** or **use-ca-subject**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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crl-file *pki-file-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Certificate Revocation List (CRL) file name
Context	**configure** system security pki ca-profile *named-item* crl-file *pki-file-name*
Tree	crl-file
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security pki ca-profile *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

ocsp

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Enter the **ocsp** context
Context	**configure** system security pki ca-profile *named-item* ocsp
Tree	ocsp
Introduced	25.3.R2
Platforms	SAR Gen 2

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responder-url *http-optional-url-loose*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	HTTP URL of the OCSP responder for the CA
Context	**configure** system security pki ca-profile *named-item* ocsp responder-url *http-optional-url-loose*
Tree	responder-url
String length	1 to 180
String format	'http-optional-url-loose' must be http:// or host-only, with optional port and path (e.g. http://hostname.domain/path)
Introduced	25.3.R2
Platforms	SAR Gen 2

service-name *service-name*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Administrative service name
Context	**configure** system security pki ca-profile *named-item* ocsp service-name *service-name*
Tree	service-name
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

transmission-profile *reference*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Transmission profile for the OCSP
Context	**configure** system security pki ca-profile *named-item* ocsp transmission-profile *reference*

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Tree	transmission-profile
Reference	**configure** system transmission-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

revocation-check *keyword*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Revocation method to check status of CA certificates
Context	**configure** system security pki ca-profile *named-item* revocation-check *keyword*
Tree	revocation-check
Description	This command specifies the revocation method the system uses to check the revocation status of certificate issued by the CA. **Note:** The **crl-optional** command option makes configuration of a valid CRL in a **ca-profile** optional. However, from a security point of view, it is important to always verify the revocation status of a certificate.
Options	crl, crl-optional
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate-auto-update [certificate-file-name] *pki-file-name*

Synopsis	Enter the **certificate-auto-update** list instance
Context	**configure** system security pki certificate-auto-update *pki-file-name*
Tree	certificate-auto-update
Description	Commands in this context configure automatic certificate update associations.
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**certificate-file-name**] *pki-file-name*

Synopsis	Certificate file name
Context	**configure** system security pki certificate-auto-update *pki-file-name*
Tree	certificate-auto-update
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-file-name *pki-file-name*

Synopsis	Imported key filename
Context	**configure** system security pki certificate-auto-update *pki-file-name* key-file-name *pki-file-name*
Tree	key-file-name
String length	1 to 95
String format	'pki-file-name' must not be all spaces 'pki-file-name' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

profile *reference*

Synopsis	Certificate update profile name
Context	**configure** system security pki certificate-auto-update *pki-file-name* profile *reference*
Tree	profile
Reference	**configure** system security pki certificate-update-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate-display-format *keyword*

Synopsis	Display format for Certificates and CRLs

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Context	**configure** system security pki certificate-display-format *keyword*
Tree	certificate-display-format
Options	ascii, utf8
Default	ascii
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate-expiration-warning

Synopsis	Enter the **certificate-expiration-warning** context
Context	**configure** system security pki certificate-expiration-warning
Tree	certificate-expiration-warning
Introduced	25.3.R2
Platforms	SAR Gen 2

hours *number*

Synopsis	Time before system generates certificate warning trap
Context	**configure** system security pki certificate-expiration-warning hours *number*
Tree	hours
Range	0 to 8760
Units	hours
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat-hours *number*

Synopsis	Time system repeats certificate expiration warning trap
Context	**configure** system security pki certificate-expiration-warning repeat-hours *number*
Tree	repeat-hours
Range	0 to 8760
Units	hours
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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certificate-update-profile [name] *named-item*

Synopsis	Enter the **certificate-update-profile** list instance
Context	**configure** system security pki certificate-update-profile *named-item*
Tree	certificate-update-profile
Description	Commands in this context configure a certificate update profile that specifies the behavior of the automatic update certificate.
Max. instances	256
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Certificate update profile name
Context	**configure** system security pki certificate-update-profile *named-item*
Tree	certificate-update-profile
Description	This command configures the certificate update profile name.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

after-issue *number*

Synopsis	Time for scheduler updates after certificate issuance
Context	**configure** system security pki certificate-update-profile *named-item* after-issue *number*
Tree	after-issue
Description	This command configures the time for scheduler updates after the certificate issue time.
Range	864000 to 157680000
Units	seconds
Notes	The following elements are part of a choice: **after-issue** or **before-expiry**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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before-expiry *number*

Synopsis	Time scheduler updates before certificate expiry
Context	**configure** system security pki certificate-update-profile *named-item* before-expiry *number*
Tree	before-expiry
Description	This command configures the time that the scheduler updates before the certificate expiration time.
Range	3600 to 157680000
Units	seconds
Default	86400
Notes	The following elements are part of a choice: **after-issue** or **before-expiry**.
Introduced	25.3.R2
Platforms	SAR Gen 2

cmpv2

Synopsis	Enter the **cmpv2** context
Context	**configure** system security pki certificate-update-profile *named-item* cmpv2
Tree	cmpv2
Notes	The following elements are part of a choice: **cmpv2** or **est**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile *reference*

Synopsis	CA profile name
Context	**configure** system security pki certificate-update-profile *named-item* cmpv2 ca-profile *reference*
Tree	ca-profile
Description	This command specifies the use of CMPv2 as the protocol to update the certificate. The CMPv2 configuration is derived from the referenced CA profile.
Reference	**configure** system security pki ca-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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dsa

Synopsis	Enter the **dsa** context
Context	**configure** system security pki certificate-update-profile *named-item* dsa
Tree	dsa
Notes	The following elements are part of a choice: **dsa**, **ecdsa**, **rsa**, or **same-as-existing-key**.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-size *number*

Synopsis	Length of the generated DSA key
Context	**configure** system security pki certificate-update-profile *named-item* dsa key-size *number*
Tree	key-size
Description	This command specifies that the newly generated key is an DSA key with the specified key length in bits.
Range	512 to 8192
Default	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

ecdsa

Synopsis	Enter the **ecdsa** context
Context	**configure** system security pki certificate-update-profile *named-item* ecdsa
Tree	ecdsa
Notes	The following elements are part of a choice: **dsa**, **ecdsa**, **rsa**, or **same-as-existing-key**.
Introduced	25.3.R2
Platforms	SAR Gen 2

curve *keyword*

Synopsis	Elliptic curve to be used in ECDSA key generation
Context	**configure** system security pki certificate-update-profile *named-item* ecdsa curve *keyword*

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Tree	curve
Description	This command specifies that the newly generated key is an ECDSA key with the specified curve.
Options	secp256r1, secp384r1, secp521r1
Default	secp256r1
Introduced	25.3.R2
Platforms	SAR Gen 2

est

Synopsis	Enter the **est** context
Context	**configure** system security pki certificate-update-profile *named-item* est
Tree	est
Notes	The following elements are part of a choice: **cmpv2** or **est**.
Introduced	25.3.R2
Platforms	SAR Gen 2

est-profile *reference*

Synopsis	EST profile name
Context	**configure** system security pki certificate-update-profile *named-item* est est-profile *reference*
Tree	est-profile
Description	This command specifies the use of EST as the protocol to update the certificate. The EST configuration is derived from the referenced EST profile.
Reference	**configure** system security pki est-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

hash-algorithm *keyword*

Synopsis	Hash algorithm for a certificate request
Context	**configure** system security pki certificate-update-profile *named-item* hash-algorithm *keyword*
Tree	hash-algorithm
Description	This command specifies the hash algorithm used to generate a certificate request.

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Options	md5, sha1, sha224, sha256, sha384, sha512
Default	sha256
Introduced	25.3.R2
Platforms	SAR Gen 2

retry-interval *number*

Synopsis	Retry interval after a failed update
Context	**configure** system security pki certificate-update-profile *named-item* retry-interval *number*
Tree	retry-interval
Description	This command configures the retry interval after the update fails.
Range	60 to 36000
Units	seconds
Default	3600
Introduced	25.3.R2
Platforms	SAR Gen 2

rsa

Synopsis	Enter the **rsa** context
Context	**configure** system security pki certificate-update-profile *named-item* rsa
Tree	rsa
Notes	The following elements are part of a choice: **dsa**, **ecdsa**, **rsa**, or **same-as-existing-key**.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-size *number*

Synopsis	Length of the generated RSA key
Context	**configure** system security pki certificate-update-profile *named-item* rsa key-size *number*
Tree	key-size
Description	This command specifies that the newly generated key is a RSA key with the specified key length in bits.
Range	512 to 8192

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Default	2048
Introduced	25.3.R2
Platforms	SAR Gen 2

same-as-existing-key

Synopsis	Generate the new key to same type and key length
Context	**configure** system security pki certificate-update-profile *named-item* same-as-existing-key
Tree	same-as-existing-key
Description	When configured, this command specifies that the newly generated key is the same type and key length as the existing key.
Notes	The following elements are part of a choice: **dsa**, **ecdsa**, **rsa**, or **same-as-existing-key**.
Introduced	25.3.R2
Platforms	SAR Gen 2

common-name-list [cn-list-name] *named-item*

Synopsis	Enter the **common-name-list** list instance
Context	**configure** system security pki common-name-list *named-item*
Tree	common-name-list
Max. instances	64
Introduced	25.3.R2
Platforms	SAR Gen 2

[cn-list-name] *named-item*

Synopsis	CN list name
Context	**configure** system security pki common-name-list *named-item*
Tree	common-name-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

common-name [cn-index] *number*

Synopsis	Enter the **common-name** list instance
Context	**configure** system security pki common-name-list *named-item* common-name *number*
Tree	common-name
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cn-index**] *number*

Synopsis	Common name index
Context	**configure** system security pki common-name-list *named-item* common-name *number*
Tree	common-name
Range	1 to 128
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

cn-type *keyword*

Synopsis	Common name type
Context	**configure** system security pki common-name-list *named-item* common-name *number* cn-type *keyword*
Tree	cn-type
Options	ip-address, domain-name
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

cn-value *regular-expression-not-all-spaces*

Synopsis	Common name value
Context	**configure** system security pki common-name-list *named-item* common-name *number* cn-value *regular-expression-not-all-spaces*

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Tree	cn-value
String length	1 to 255
String format	'regular-expression-not-all-spaces' must contain at least one non-space character
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

crl-expiration-warning

Synopsis	Enter the **crl-expiration-warning** context
Context	**configure** system security pki crl-expiration-warning
Tree	crl-expiration-warning
Introduced	25.3.R2
Platforms	SAR Gen 2

hours *number*

Synopsis	Time before system generates CRL expiration warning trap
Context	**configure** system security pki crl-expiration-warning hours *number*
Tree	hours
Range	0 to 8760
Units	hours
Introduced	25.3.R2
Platforms	SAR Gen 2

repeat-hours *number*

Synopsis	Time system repeats CRL expiration warning trap
Context	**configure** system security pki crl-expiration-warning repeat-hours *number*
Tree	repeat-hours
Range	0 to 8760
Units	hours
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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dynamic-ca *boolean*

Synopsis	Enable the dynamic sub-CA support for IPsec
Context	**configure** system security pki dynamic-ca *boolean*
Tree	dynamic-ca
Description	When configured to **true**, the system may authenticate the IPsec peer using a certificate without provisioning the peer's sub-CAs locally, if the peer sends sub-CA certificates during IKEv2 exchanges.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

est-profile [name] *named-item*

Synopsis	Enter the **est-profile** list instance
Context	**configure** system security pki est-profile *named-item*
Tree	est-profile
Description	Commands in this context configure an Enrollment over Secure Transport (EST) profile.
Max. instances	128
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Enrollment over Secured Transport profile name
Context	**configure** system security pki est-profile *named-item*
Tree	est-profile
Description	This command configures the EST profile name.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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check-id-kp-cmcra-only *boolean*

Synopsis	Check id-kp-cmcra in the EST certificate
Context	**configure** system security pki est-profile *named-item* check-id-kp-cmcra-only *boolean*
Tree	check-id-kp-cmcra-only
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

client-tls-profile *named-item*

Synopsis	TLS client profile assigned to applications
Context	**configure** system security pki est-profile *named-item* client-tls-profile *named-item*
Tree	client-tls-profile
Description	This command specifies the TLS client profile to be assigned to applications for encryption. The profile creates the TLS connection to the EST server.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

http-authentication

Synopsis	Enter the **http-authentication** context
Context	**configure** system security pki est-profile *named-item* http-authentication
Tree	http-authentication
Introduced	25.3.R2
Platforms	SAR Gen 2

password *encrypted-leaf*

Synopsis	Password for EST authentication
Context	**configure** system security pki est-profile *named-item* http-authentication password *encrypted-leaf*
Tree	password

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Description	This command specifies the password for EST authentication in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Introduced	25.3.R2
Platforms	SAR Gen 2

username *string*

Synopsis	Username for the EST authentication
Context	**configure** system security pki est-profile *named-item* http-authentication username *string*
Tree	username
String length	1 to 32
Introduced	25.3.R2
Platforms	SAR Gen 2

server

Synopsis	Enter the **server** context
Context	**configure** system security pki est-profile *named-item* server
Tree	server
Description	Commands in this context configure EST server parameters.
Introduced	25.3.R2
Platforms	SAR Gen 2

fqdn *fully-qualified-domain-name*

Synopsis	Fully Qualified Domain Name (FQDN) of the EST server
Context	**configure** system security pki est-profile *named-item* server fqdn *fully-qualified-domain-name*
Tree	fqdn
Description	This command specifies to use the FQDN of the EST server.
String length	1 to 255
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.

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Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 *ipv4-unicast-address*

Synopsis	IPv4 address of the EST server
Context	**configure** system security pki est-profile *named-item* server ipv4 *ipv4-unicast-address*
Tree	ipv4
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IPv6 address of the EST server
Context	**configure** system security pki est-profile *named-item* server ipv6 *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	ipv6
Notes	The following elements are part of a choice: **fqdn**, **ipv4**, or **ipv6**.
Introduced	25.3.R2
Platforms	SAR Gen 2

path

Synopsis	Enter the **path** context
Context	**configure** system security pki est-profile *named-item* server path
Tree	path
Description	Commands in this context configure URL paths for EST request messages.
Introduced	26.3.R1
Platforms	SAR Gen 2

cacerts *string*

Synopsis	Server path to request CA certificates

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Context	**configure** system security pki est-profile *named-item* server path cacerts *string*
Tree	cacerts
String length	1 to 255
String format	'cacerts' must start with / (e.g. /path)
Introduced	26.3.R1
Platforms	SAR Gen 2

simpleenroll *string*

Synopsis	Server path to request simple certificate enrollment
Context	**configure** system security pki est-profile *named-item* server path simpleenroll *string*
Tree	simpleenroll
String length	1 to 255
String format	'simpleenroll' must start with / (e.g. /path)
Introduced	26.3.R1
Platforms	SAR Gen 2

simplereenroll *string*

Synopsis	Server path for the reenrollment of clients
Context	**configure** system security pki est-profile *named-item* server path simplereenroll *string*
Tree	simplereenroll
String length	1 to 255
String format	'simplereenroll' must start with / (e.g. /path)
Introduced	26.3.R1
Platforms	SAR Gen 2

port *number*

Synopsis	Port number of the EST server
Context	**configure** system security pki est-profile *named-item* server port *number*
Tree	port
Range	1 to 65535
Default	443
Introduced	25.3.R2

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Platforms	SAR Gen 2

transmission-profile *named-item*

Synopsis	Transmission profile name for EST
Context	**configure** system security pki est-profile *named-item* transmission-profile *named-item*
Tree	transmission-profile
Description	This command associates a file transmission profile to the EST profile. The transmission profile defines transport parameters for protocol such as HTTP, include routing instance, source address, timeout value, and so on.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

imported-format *keyword*

Synopsis	The supported encrypted file formats
Context	**configure** system security pki imported-format *keyword*
Tree	imported-format
Options	any, secure
Default	any
Introduced	25.3.R2
Platforms	SAR Gen 2

maximum-cert-chain-depth *number*

Synopsis	Maximum depth of certificate chain verification
Context	**configure** system security pki maximum-cert-chain-depth *number*
Tree	maximum-cert-chain-depth
Range	1 to 7
Default	7
Introduced	25.3.R2
Platforms	SAR Gen 2

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python-script

Synopsis	Enter the **python-script** context
Context	**configure** system security python-script
Tree	python-script
Introduced	25.3.R2
Platforms	SAR Gen 2

authorization

Synopsis	Enter the **authorization** context
Context	**configure** system security python-script authorization
Tree	authorization
Introduced	25.3.R2
Platforms	SAR Gen 2

cron

Synopsis	Enter the **cron** context
Context	**configure** system security python-script authorization cron
Tree	cron
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-user *reference*

Synopsis	User profile name when executing a Python application
Context	**configure** system security python-script authorization cron cli-user *reference*
Tree	cli-user
Reference	**configure** system security user-params local-user user *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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event-handler

Synopsis	Enter the **event-handler** context
Context	**configure** system security python-script authorization event-handler
Tree	event-handler
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-user *reference*

Synopsis	User profile name when executing a Python application
Context	**configure** system security python-script authorization event-handler cli-user *reference*
Tree	cli-user
Reference	**configure** system security user-params local-user user *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

subscriber-mgmt

Synopsis	Enter the **subscriber-mgmt** context
Context	**configure** system security python-script authorization subscriber-mgmt
Tree	subscriber-mgmt
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-user *reference*

Synopsis	User profile name when executing a Python application
Context	**configure** system security python-script authorization subscriber-mgmt cli-user *reference*
Tree	cli-user
Reference	**configure** system security user-params local-user user *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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snmp

Synopsis	Enter the **snmp** context
Context	**configure** system security snmp
Tree	snmp
Introduced	25.3.R2
Platforms	SAR Gen 2

access [group] *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword*

Synopsis	Enter the **access** list instance
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword*
Tree	access
Introduced	25.3.R2
Platforms	SAR Gen 2

[**group**] *named-item*

Synopsis	Group name
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword*
Tree	access
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

context *named-item-or-empty*

Synopsis	String to match context name for access rights
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword*
Tree	access

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String length	0 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

security-model *keyword*

Synopsis	Security model
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword*
Tree	access
Options	snmpv1, snmpv2c, usm
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

security-level *keyword*

Synopsis	Minimum security level required to gain access rights
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword*
Tree	access
Options	no-auth-no-privacy, auth-no-privacy, privacy
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

notify *named-item*

Synopsis	SNMP view for notification access
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword* notify *named-item*
Tree	notify
Description	This command specifies the SNMP view used to control which MIB objects can be accessed for notifications.

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix-match *keyword*

Synopsis	Match type for the context
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword* prefix-match *keyword*
Tree	prefix-match
Options	exact, prefix
Introduced	25.3.R2
Platforms	SAR Gen 2

read *named-item*

Synopsis	SNMP view for read access
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword* read *named-item*
Tree	read
Description	This command specifies the SNMP view used to control which MIB objects can be accessed using a read (get) operation.
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

write *named-item*

Synopsis	SNMP view for write access
Context	**configure** system security snmp access *named-item* context *named-item-or-empty* security-model *keyword* security-level *keyword* write *named-item*
Tree	write
Description	This command specifies the SNMP view used to control which MIB objects can be accessed using a write (set) operation.

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String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

attempts

Synopsis	Enter the **attempts** context
Context	**configure** system security snmp attempts
Tree	attempts
Description	Commands in this context configure settings for SNMPv2 or SNMPv3 connection attempts. The command settings are used to counter Denial of Service (DOS) attacks through SNMP. If the threshold is exceeded, the host is locked out for the lockout time period.
Introduced	25.3.R2
Platforms	SAR Gen 2

count *number*

Synopsis	Unsuccessful attempts allowed within time period
Context	**configure** system security snmp attempts count *number*
Tree	count
Range	1 to 64
Default	20
Introduced	25.3.R2
Platforms	SAR Gen 2

lockout *number*

Synopsis	Lockout period during which the host cannot log in
Context	**configure** system security snmp attempts lockout *number*
Tree	lockout
Description	This command configures the time period during which the host cannot log in. When the host exceeds the attempted counts setting, the host is locked out from further login attempts for the configured time period.
Range	0 to 1440

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Units	minutes
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time before host lockout after unsuccessful attempts
Context	**configure** system security snmp attempts time *number*
Tree	time
Range	0 to 60
Units	minutes
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

community [community-string] *encrypted-leaf*

Synopsis	Enter the **community** list instance
Context	**configure** system security snmp community *encrypted-leaf*
Tree	community
Introduced	25.3.R2
Platforms	SAR Gen 2

[**community-string**] *encrypted-leaf*

Synopsis	SNMPv1 or SNMPv2c community string
Context	**configure** system security snmp community *encrypted-leaf*
Tree	community
Description	This command specifies the SNMPv1 or SNMPv2c community string in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

access-permissions *keyword*

Synopsis	Access permissions for objects in the MIB
Context	**configure** system security snmp community *encrypted-leaf* access-permissions *keyword*
Tree	access-permissions
Options	r, rw, rwa, mgmt, vpls-mgmt
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

source-access-list *reference*

Synopsis	Source access list to validate received SNMP requests
Context	**configure** system security snmp community *encrypted-leaf* source-access-list *reference*
Tree	source-access-list
Reference	**configure** system security snmp source-access-list *string-not-all-spaces*
Introduced	25.3.R2
Platforms	SAR Gen 2

version *keyword*

Synopsis	SNMP version
Context	**configure** system security snmp community *encrypted-leaf* version *keyword*
Tree	version
Options	v1, v2c, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

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source-access-list [list-name] *string-not-all-spaces*

Synopsis	Enter the **source-access-list** list instance
Context	**configure** system security snmp source-access-list *string-not-all-spaces*
Tree	source-access-list
Description	Commands in this context configure SNMP source access lists. SNMP source access lists are used to validate the source IP address of received SNMP requests. Multiple community (VPRN or Base router) and USM community instances can reference the same SNMP source access list.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**list-name**] *string-not-all-spaces*

Synopsis	Source access list name
Context	**configure** system security snmp source-access-list *string-not-all-spaces*
Tree	source-access-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character 'list-name' must start with a letter (e.g. myList)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

source-host [host-name] *named-item*

Synopsis	Enter the **source-host** list instance
Context	**configure** system security snmp source-access-list *string-not-all-spaces* source-host *named-item*
Tree	source-host
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**host-name**] *named-item*

Synopsis	Source host entry name
Context	**configure** system security snmp source-access-list *string-not-all-spaces* source-host *named-item*
Tree	source-host
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Source IP address entry used to validate SNMP requests
Context	**configure** system security snmp source-access-list *string-not-all-spaces* source-host *named-item* address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

usm-community [community-string] *encrypted-leaf*

Synopsis	Enter the **usm-community** list instance
Context	**configure** system security snmp usm-community *encrypted-leaf*
Tree	usm-community
Introduced	25.3.R2
Platforms	SAR Gen 2

[**community-string**] *encrypted-leaf*

Synopsis	Community string associated with SNMPv3 access group
Context	**configure** system security snmp usm-community *encrypted-leaf*
Tree	usm-community

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Description	This command specifies the community string associated with SNMPv3 access group in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

group *named-item*

Synopsis	Group to manage access rights of the community string
Context	**configure** system security snmp usm-community *encrypted-leaf* group *named-item*
Tree	group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

source-access-list *reference*

Synopsis	Source access list to validate received SNMP requests
Context	**configure** system security snmp usm-community *encrypted-leaf* source-access-list *reference*
Tree	source-access-list
Reference	**configure** system security snmp source-access-list *string-not-all-spaces*
Introduced	25.3.R2
Platforms	SAR Gen 2

view [view-name] *named-item* subtree *string*

Synopsis	Enter the **view** list instance
Context	**configure** system security snmp view *named-item* subtree *string*
Tree	view
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**view-name**] *named-item*

Synopsis	View name
Context	**configure** system security snmp view *named-item* subtree *string*
Tree	view
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

subtree *string*

Synopsis	Object Identifier (OID) value
Context	**configure** system security snmp view *named-item* subtree *string*
Tree	view
String length	1 to 256
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

mask *string*

Synopsis	Mask value as binary value, or hex value
Context	**configure** system security snmp view *named-item* subtree *string* mask *string*
Tree	mask
String length	1 to 16
String format	'mask' must be even-length hex (e.g. 0a1b)
Introduced	25.3.R2
Platforms	SAR Gen 2

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type *keyword*

Synopsis	Type of SNMP security view mask
Context	**configure** system security snmp view *named-item* subtree *string* type *keyword*
Tree	type
Options	included, excluded
Introduced	25.3.R2
Platforms	SAR Gen 2

source-address

Synopsis	Enter the **source-address** context
Context	**configure** system security source-address
Tree	source-address
Description	Commands in this context configure the IP source address that is used in all unsolicited packets sent by the specified applications. This configuration applies to packets transmitted in-band (for example, a network port on an IOM) and does not apply to packets transmitted out-of-band on the management interface on the CPM Ethernet port. Packets transmitted using the CPM Ethernet port use the address of the CPM Ethernet port as the IP source address in the packet. When a source address is specified for the PTP application, the port-based 1588 hardware timestamping assist function is applied to PTP packets matching the IPv4 address of the router interface used to ingress the IP address specified in this command. If the IP address is removed, the port-based 1588 hardware timestamping assist function is only applied to PTP packets matching the IPv4 address of the router interface.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4 [application] *keyword*

Synopsis	Enter the **ipv4** list instance
Context	**configure** system security source-address ipv4 *keyword*
Tree	ipv4
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**application**] *keyword*

Synopsis	Application that sets the source IPv4 address
Context	**configure** system security source-address ipv4 *keyword*
Tree	ipv4
Options	telnet – Telnet packets ftp – FTP packets ssh – SSH packets radius – RADIUS packets tacplus – TACACS+ packets snmptrap – SNMP trap packets syslog – Syslog packets ping – ICMP Echo Reply messages traceroute – Traceroute reply messages dns – DNS packets sntp – SNTP packets ntp – NTP packets cflowd – Cflowd packets ptp – PTP packets mcreporter – IGMP Host Report messages sflow – Sflow packets icmp-error – ICMP error messages ldap – LDAP packets
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv4-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv4 source address for the application
Context	**configure** system security source-address ipv4 *keyword* address *ipv4-address*
Tree	address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	The following elements are part of a mandatory choice: **address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interface-name *interface-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IP interface name
Context	**configure** system security source-address ipv4 *keyword* interface-name *interface-name*
Tree	interface-name
String length	1 to 32
Notes	The following elements are part of a mandatory choice: **address** or **interface-name**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6 [application] *keyword*

Synopsis	Enter the **ipv6** list instance
Context	**configure** system security source-address ipv6 *keyword*
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

[**application**] *keyword*

Synopsis	Application that sets the source IPv6 address
Context	**configure** system security source-address ipv6 *keyword*
Tree	ipv6
Options	telnet – Telnet packets ftp – FTP packets radius – RADIUS packets tacplus – TACACS+ packets snmptrap – SNMP trap packets syslog – Syslog packets ping – ICMPv6 Echo Reply messages traceroute – Traceroute reply messages dns – DNS packets cflowd – Cflowd packets ntp – NTP packets sflow – Sflow packets icmp6-error – ICMPv6 error messages

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ldap – LDAP packets
ssh – SSH packets
ptp – PTP packets

Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

address *ipv6-address*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	IPv6 source address for the application
Context	**configure** system security source-address ipv6 *keyword* address *ipv6-address*
Tree	address
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh

Synopsis	Enter the **ssh** context
Context	**configure** system security ssh
Tree	ssh
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-method

Synopsis	Enter the **authentication-method** context
Context	**configure** system security ssh authentication-method
Tree	authentication-method
Introduced	25.3.R2
Platforms	SAR Gen 2

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client

Synopsis	Enter the **client** context
Context	**configure** system security ssh authentication-method client
Tree	client
Introduced	25.3.R2
Platforms	SAR Gen 2

public-key-only *boolean*

Synopsis	Accept only public-key authentication for SSH session
Context	**configure** system security ssh authentication-method client public-key-only *boolean*
Tree	public-key-only
Description	When configured to **true**, the system accepts only public key client authentication for the SSH server. This command defines the authentication method at the system level. When configured to **false**, the system accepts public key or password client authentication. If **interactive-authentication** is configured to **true** in the **configure system security aaa remote-servers radius** or **configure system security aaa remote-servers tacplus** context, the system also accepts interactive keyboard authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

server

Synopsis	Enter the **server** context
Context	**configure** system security ssh authentication-method server
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

public-key-only *boolean*

Synopsis	Accept only public-key authentication for SSH session
Context	**configure** system security ssh authentication-method server public-key-only *boolean*

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Tree	public-key-only
Description	When configured to **true**, the system accepts only public key client authentication for the SSH server. This command defines the authentication method at the system level. When configured to **false**, the system accepts public key or password client authentication. If **interactive-authentication** is configured to **true** in the **configure system security aaa remote-servers radius** or **configure system security aaa remote-servers tacplus** context, the system also accepts interactive keyboard authentication.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

client-cipher-list-v2

Synopsis	Enter the **client-cipher-list-v2** context
Context	**configure** system security ssh client-cipher-list-v2
Tree	client-cipher-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

cipher [index] *number*

Synopsis	Enter the **cipher** list instance
Context	**configure** system security ssh client-cipher-list-v2 cipher *number*
Tree	cipher
Description	Commands in this context configure a client-cipher instance. Client-ciphers are used when the SR OS is acting as an SSH client.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Cipher index in the list
Context	**configure** system security ssh client-cipher-list-v2 cipher *number*
Tree	cipher
Range	1 to 255

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Algorithm for performing encryption or decryption
Context	**configure** system security ssh client-cipher-list-v2 cipher *number* name *keyword*
Tree	name
Options	3des-cbc, aes128-cbc, aes192-cbc, aes256-cbc, aes128-ctr, aes192-ctr, aes256-ctr, aes256-gcm-openssh-com
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-host-key-list-v2

Synopsis	Enter the **client-host-key-list-v2** context
Context	**configure** system security ssh client-host-key-list-v2
Tree	client-host-key-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

host-key [index] *number*

Synopsis	Enter the **host-key** list instance
Context	**configure** system security ssh client-host-key-list-v2 host-key *number*
Tree	host-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	SSHv2 host key algorithm index
Context	**configure** system security ssh client-host-key-list-v2 host-key *number*

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Tree	host-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Host key algorithm for computing a signature
Context	**configure** system security ssh client-host-key-list-v2 host-key *number* name *keyword*
Tree	name
Options	ssh-rsa, rsa-sha2-256, rsa-sha2-512, ecdsa-sha2-nistp256, ecdsa-sha2-nistp384, ecdsa-sha2-nistp521, ssh-ed25519
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-kex-list-v2

Synopsis	Enter the **client-kex-list-v2** context
Context	**configure** system security ssh client-kex-list-v2
Tree	client-kex-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

kex [index] *number*

Synopsis	Enter the **kex** list instance
Context	**configure** system security ssh client-kex-list-v2 kex *number*
Tree	kex
Description	Commands in this context configure SSH KEX algorithms for SR OS as a client. If a list is configured, SSH uses the user-configured list with the lowest index algorithm having the highest priority, and so on. By default, the client list is empty. When the list is unconfigured, SSH uses the default list hard-coded in SR OS which contains the following algorithms: • mlkem768x25519-sha256

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- ecdh-sha2-nistp512
- ecdh-sha2-nistp384
- ecdh-sha2-nistp256
- diffie-hellman-group16-sha512
- diffie-hellman-group14-sha256
- diffie-hellman-group14-sha1
- diffie-hellman-group-exchange-sha1
- diffie-hellman-group1-sha1

Introduced 25.3.R2

Platforms SAR Gen 2

[**index**] *number*

Synopsis SSHv2 KEX algorithm index

Context **configure** system security ssh client-kex-list-v2 kex *number*

Tree kex

Description This command configures the index of the KEX algorithm in the list. The lowest index in the list is negotiated first on the SSH negotiation list, while the highest index is at the bottom of the SSH negotiation list.

Range 1 to 255

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

name *keyword*

Synopsis KEX algorithm for computing a shared secret key

Context **configure** system security ssh client-kex-list-v2 kex *number* name *keyword*

Tree name

Options diffie-hellman-group1-sha1, diffie-hellman-group14-sha1, diffie-hellman-group-exchange-sha1, diffie-hellman-group14-sha256, diffie-hellman-group16-sha512, ecdh-sha2-nistp256, ecdh-sha2-nistp384, ecdh-sha2-nistp521, mlkem768x25519-sha256

Notes This element is mandatory.

Introduced 25.3.R2

Platforms SAR Gen 2

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client-known-hosts

Synopsis	Enter the **client-known-hosts** context
Context	**configure** system security ssh client-known-hosts
Tree	client-known-hosts
Description	Commands in this context configure the static list of trusted SSH host public keys that SR OS accepts when acting as the SSH client. SR OS supports configuring multiple static host public keys for a host. A mix of static and dynamically learned keys can be associated with a host for authentication.
Introduced	26.3.R1
Platforms	SAR Gen 2

host-key [index] *number*

Synopsis	Enter the **host-key** list instance
Context	**configure** system security ssh client-known-hosts host-key *number*
Tree	host-key
Description	Commands in this context configure the host keys in the list of trusted host public keys.
Max. instances	32
Introduced	26.3.R1
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Host public key index number
Context	**configure** system security ssh client-known-hosts host-key *number*
Tree	host-key
Range	1 to 32
Notes	This element is part of a list key.
Introduced	26.3.R1
Platforms	SAR Gen 2

description *description*

Synopsis	Text description

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Context	**configure** system security ssh client-known-hosts host-key *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	SAR Gen 2

host-name *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*

Synopsis	IP address or FQDN of the host
Context	**configure** system security ssh client-known-hosts host-key *number* host-name *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*
Tree	host-name
String length	1 to 255
Introduced	26.3.R1
Platforms	SAR Gen 2

key-value *string-not-all-spaces*

Synopsis	Host public key value
Context	**configure** system security ssh client-known-hosts host-key *number* key-value *string-not-all-spaces*
Tree	key-value
String length	1 to 800
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.3.R1
Platforms	SAR Gen 2

client-mac-list-v2

Synopsis	Enter the **client-mac-list-v2** context
Context	**configure** system security ssh client-mac-list-v2
Tree	client-mac-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

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mac [index] *number*

Synopsis	Enter the **mac** list instance
Context	**configure** system security ssh client-mac-list-v2 mac *number*
Tree	mac
Description	Commands in this context configure SSH MAC algorithms for SR OS as a client.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	MAC algorithm index
Context	**configure** system security ssh client-mac-list-v2 mac *number*
Tree	mac
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Algorithm for calculating message authentication code
Context	**configure** system security ssh client-mac-list-v2 mac *number* name *keyword*
Tree	name
Options	hmac-sha2-512, hmac-sha2-256, hmac-sha1, hmac-sha1-96, hmac-md5, hmac-md5-96
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-re-exchange

Synopsis	Enter the **key-re-exchange** context
Context	**configure** system security ssh key-re-exchange
Tree	key-re-exchange
Introduced	25.3.R2

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Platforms	SAR Gen 2

client

Synopsis	Enter the **client** context
Context	**configure** system security ssh key-re-exchange client
Tree	client
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the key re-exchange
Context	**configure** system security ssh key-re-exchange client admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

mbytes *(number | keyword)*

Synopsis	Maximum bytes transmitted before key re-exchange begins
Context	**configure** system security ssh key-re-exchange client mbytes *(number | keyword)*
Tree	mbytes
Range	1 to 64000
Units	megabytes
Options	infinite
Default	1024
Introduced	25.3.R2
Platforms	SAR Gen 2

minutes *(number | keyword)*

Synopsis	Maximum time before key re-exchange is initiated

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Context	**configure** system security ssh key-re-exchange client minutes *(number | keyword)*
Tree	minutes
Range	1 to 1440
Units	minutes
Options	infinite
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

server

Synopsis	Enter the **server** context
Context	**configure** system security ssh key-re-exchange server
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the key re-exchange
Context	**configure** system security ssh key-re-exchange server admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

mbytes *(number | keyword)*

Synopsis	Maximum bytes transmitted before key re-exchange begins
Context	**configure** system security ssh key-re-exchange server mbytes *(number | keyword)*
Tree	mbytes
Range	1 to 64000
Units	megabytes
Options	infinite

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Default	1024
Introduced	25.3.R2
Platforms	SAR Gen 2

minutes *(number | keyword)*

Synopsis	Maximum time before key re-exchange is initiated
Context	**configure** system security ssh key-re-exchange server minutes *(number | keyword)*
Tree	minutes
Range	1 to 1440
Units	minutes
Options	infinite
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

listening-port *number*

Synopsis	TCP port for SSH connections for VPRN or base routing
Context	**configure** system security ssh listening-port *number*
Tree	listening-port
Range	22 | 1024 to 49151
Default	22
Introduced	25.3.R2
Platforms	SAR Gen 2

permit-empty-passwords *boolean*

Synopsis	Permit users with empty password strings to log in
Context	**configure** system security ssh permit-empty-passwords *boolean*
Tree	permit-empty-passwords
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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preserve-key *boolean*

Synopsis	Preserve keys and restore on system or server restart
Context	**configure** system security ssh preserve-key *boolean*
Tree	preserve-key
Description	When configured to **true**, private, public, and host keys are saved by the server. The keys are restored following a system reboot or a restart of an SSH server. When configured to **false**, the keys are held in memory by an SSH server but are not restored following a system reboot.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

server-admin-state *keyword*

Synopsis	Administrative state of the SSH server
Context	**configure** system security ssh server-admin-state *keyword*
Tree	server-admin-state
Options	enable, disable
Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

server-cipher-list-v2

Synopsis	Enter the **server-cipher-list-v2** context
Context	**configure** system security ssh server-cipher-list-v2
Tree	server-cipher-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

cipher [index] *number*

Synopsis	Enter the **cipher** list instance
Context	**configure** system security ssh server-cipher-list-v2 cipher *number*

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Tree	cipher
Description	Commands in this context configure a server-cipher instance. Server-ciphers are used when SR OS is acting as an SSH server.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Cipher index in the list
Context	**configure** system security ssh server-cipher-list-v2 cipher *number*
Tree	cipher
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Algorithm for performing encryption or decryption
Context	**configure** system security ssh server-cipher-list-v2 cipher *number* name *keyword*
Tree	name
Options	3des-cbc, aes128-cbc, aes192-cbc, aes256-cbc, aes128-ctr, aes192-ctr, aes256-ctr, aes256-gcm-openssh-com
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-host-key-list-v2

Synopsis	Enter the **server-host-key-list-v2** context
Context	**configure** system security ssh server-host-key-list-v2
Tree	server-host-key-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

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host-key [index] *number*

Synopsis	Enter the **host-key** list instance
Context	**configure** system security ssh server-host-key-list-v2 host-key *number*
Tree	host-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	SSHv2 host key algorithm index
Context	**configure** system security ssh server-host-key-list-v2 host-key *number*
Tree	host-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Host key algorithm for computing a signature
Context	**configure** system security ssh server-host-key-list-v2 host-key *number* name *keyword*
Tree	name
Options	ssh-rsa, rsa-sha2-256, rsa-sha2-512, ecdsa-sha2-nistp256, ecdsa-sha2-nistp384, ecdsa-sha2-nistp521, ssh-ed25519
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-kex-list-v2

Synopsis	Enter the **server-kex-list-v2** context
Context	**configure** system security ssh server-kex-list-v2
Tree	server-kex-list-v2
Introduced	25.3.R2

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Platforms SAR Gen 2

kex [index] *number*

Synopsis Enter the **kex** list instance

Context **configure** system security ssh server-kex-list-v2 kex *number*

Tree kex

Description Commands in this context configure SSH KEX algorithms for SR OS as a server.

If a list is configured, SSH uses the user-configured list with the lowest index algorithm having the highest priority, and so on.

By default, the server list is empty. When the list is unconfigured, SSH uses the default list hard-coded in SR OS, which contains the following algorithms:

- mlkem768x25519-sha256
- ecdh-sha2-nistp512
- ecdh-sha2-nistp384
- ecdh-sha2-nistp256
- diffie-hellman-group16-sha512
- diffie-hellman-group14-sha256
- diffie-hellman-group14-sha1
- diffie-hellman-group-exchange-sha1
- diffie-hellman-group1-sha1

Introduced 25.3.R2

Platforms SAR Gen 2

[**index**] *number*

Synopsis SSHv2 KEX algorithm index

Context **configure** system security ssh server-kex-list-v2 kex *number*

Tree kex

Description This command configures the index of the KEX algorithm in the list. The lowest index in the list is negotiated first on the SSH negotiation list, while the highest index is at the bottom of the SSH negotiation list.

Range 1 to 255

Notes This element is part of a list key.

Introduced 25.3.R2

Platforms SAR Gen 2

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name *keyword*

Synopsis	KEX algorithm for computing a shared secret key
Context	**configure** system security ssh server-kex-list-v2 kex *number* name *keyword*
Tree	name
Options	diffie-hellman-group1-sha1, diffie-hellman-group14-sha1, diffie-hellman-group-exchange-sha1, diffie-hellman-group14-sha256, diffie-hellman-group16-sha512, ecdh-sha2-nistp256, ecdh-sha2-nistp384, ecdh-sha2-nistp521, mlkem768x25519-sha256
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-mac-list-v2

Synopsis	Enter the **server-mac-list-v2** context
Context	**configure** system security ssh server-mac-list-v2
Tree	server-mac-list-v2
Introduced	25.3.R2
Platforms	SAR Gen 2

mac [index] *number*

Synopsis	Enter the **mac** list instance
Context	**configure** system security ssh server-mac-list-v2 mac *number*
Tree	mac
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	MAC algorithm index
Context	**configure** system security ssh server-mac-list-v2 mac *number*
Tree	mac
Range	1 to 255
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Algorithm for calculating message authentication code
Context	**configure** system security ssh server-mac-list-v2 mac *number* name *keyword*
Tree	name
Options	hmac-sha2-512, hmac-sha2-256, hmac-sha1, hmac-sha1-96, hmac-md5, hmac-md5-96
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

system-passwords

Synopsis	Enter the **system-passwords** context
Context	**configure** system security system-passwords
Tree	system-passwords
Description	This command enters the context to configure system passwords.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-password *hashed-leaf*

Synopsis	Administrative password for the enable command
Context	**configure** system security system-passwords admin-password *hashed-leaf*
Tree	admin-password
Description	This command allows a user with administrative permissions to configure a password that enables a user to become an administrator. This password is valid only for one session. When enabled, no authorization to TACACS + or RADIUS is performed and the user is locally regarded as an administrative user. If the **admin-password** is configured in the **configure system security system-passwords admin-password** context, any user can enter the special mode by entering the **enable** command. **enable** is in the default profile. By default, all users are given access to this command. After the **enable** command is entered, the user is prompted for a password. If the password matches, the user is given unrestricted access to all commands.

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	The minimum length of the password is determined by the **minimum-length** command. The complexity requirements for the password are determined by the **complexity** command. **Note:** This command applies to a local user, in addition to users on RADIUS, TACACS, and LDAP. (none)
String length	3 to 136
Introduced	25.3.R2
Platforms	SAR Gen 2

tech-support

Synopsis	Enter the **tech-support** context
Context	**configure** system security tech-support
Tree	tech-support
Introduced	25.3.R2
Platforms	SAR Gen 2

ts-location *(ts-sat-url | cflash-url | string)*

Synopsis	Default file path for generated tech-support files
Context	**configure** system security tech-support ts-location *(ts-sat-url | cflash-url | string)*
Tree	ts-location
String length	1 to 180
String format	'ts-sat-url' must start with sat: (e.g. sat:path/to/file) 'cflash-url' must start with cf1-4, optional slot A-D, then path (e.g. cf1:/path or cf1-A:/path) 'cflash-url' must have each path segment at most 99 characters 'ts-url-string' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet

Synopsis	Enter the **telnet** context
Context	**configure** system security telnet
Tree	telnet

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Introduced	25.3.R2
Platforms	SAR Gen 2

listening-port *number*

Synopsis	TCP port for Telnet connections for VPRN or base routing
Context	**configure** system security telnet listening-port *number*
Tree	listening-port
Range	23 | 1024 to 49151
Default	23
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-server *boolean*

Synopsis	Enable Telnet servers running on the system
Context	**configure** system security telnet-server *boolean*
Tree	telnet-server
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet6-server *boolean*

Synopsis	Enable Telnet IPv6 servers running on the system
Context	**configure** system security telnet6-server *boolean*
Tree	telnet6-server
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

tls

Synopsis	Enter the **tls** context
Context	**configure** system security tls

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Tree	tls
Description	Commands in this context configure TLS command options.
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile [cert-profile-name] *named-item*

Synopsis	Enter the **cert-profile** list instance
Context	**configure** system security tls cert-profile *named-item*
Tree	cert-profile
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cert-profile-name**] *named-item*

Synopsis	TLS certificate profile name
Context	**configure** system security tls cert-profile *named-item*
Tree	cert-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the certificate profile
Context	**configure** system security tls cert-profile *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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entry [entry-id] *number*

Synopsis	Enter the **entry** list instance
Context	**configure** system security tls cert-profile *named-item* entry *number*
Tree	entry
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**entry-id**] *number*

Synopsis	Certificate profile ID
Context	**configure** system security tls cert-profile *named-item* entry *number*
Tree	entry
Range	1 to 8
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

certificate-file *string-not-all-spaces*

Synopsis	Certificate file name
Context	**configure** system security tls cert-profile *named-item* entry *number* certificate-file *string-not-all-spaces*
Tree	certificate-file
String length	1 to 95
String format	'string-not-all-spaces' must contain at least one non-space character 'certificate-file' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

key-file *string-not-all-spaces*

Synopsis	Key file name

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Context	**configure** system security tls cert-profile *named-item* entry *number* key-file *string-not-all-spaces*
Tree	key-file
String length	1 to 95
String format	'string-not-all-spaces' must contain at least one non-space character 'key-file' must not contain : or / (filename only)
Introduced	25.3.R2
Platforms	SAR Gen 2

send-chain

Synopsis	Enter the **send-chain** context
Context	**configure** system security tls cert-profile *named-item* entry *number* send-chain
Tree	send-chain
Introduced	25.3.R2
Platforms	SAR Gen 2

ca-profile [ca-profile-name] *reference*

Synopsis	Add a list entry for **ca-profile**
Context	**configure** system security tls cert-profile *named-item* entry *number* send-chain ca-profile *reference*
Tree	ca-profile
Max. instances	7
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile-name**] *reference*

Synopsis	CA profile name
Context	**configure** system security tls cert-profile *named-item* entry *number* send-chain ca-profile *reference*
Tree	ca-profile
Reference	**configure** system security pki ca-profile *named-item*
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

client-cipher-list [client-cipher-list-name] *named-item*

Synopsis	Enter the **client-cipher-list** list instance
Context	**configure** system security tls client-cipher-list *named-item*
Tree	client-cipher-list
Description	Commands in this context create a cipher list the client sends to the server in the client Hello message. It consists of a list of ciphers supported and preferred by SR OS for use in the TLS session. The server matches this client list against the server cipher list. The most preferred cipher found in both lists is chosen.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**client-cipher-list-name**] *named-item*

Synopsis	Client cipher list name
Context	**configure** system security tls client-cipher-list *named-item*
Tree	client-cipher-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls12-cipher [index] *number*

Synopsis	Enter the **tls12-cipher** list instance
Context	**configure** system security tls client-cipher-list *named-item* tls12-cipher *number*
Tree	tls12-cipher
Description	Commands in this context configure the cipher suite that is negotiated by the server and client.
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index of the cipher
Context	**configure** system security tls client-cipher-list *named-item* tls12-cipher *number*
Tree	tls12-cipher
Description	This command configures the index number of the cipher. The index number provides the location of the cipher in the negotiation list; the lower index numbers are higher in the list, and the higher index numbers are lower in the list.
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Cipher suite code
Context	**configure** system security tls client-cipher-list *named-item* tls12-cipher *number* name *keyword*
Tree	name
Options	tls-rsa-with3des-ede-cbc-sha, tls-rsa-with-aes128-cbc-sha, tls-rsa-with-aes256-cbc-sha, tls-rsa-with-aes128-cbc-sha256, tls-rsa-with-aes256-cbc-sha256, tls-rsa-with-aes128-gcm-sha256, tls-rsa-with-aes256-gcm-sha384, tls-ecdhe-ecdsa-aes128-gcm-sha256, tls-ecdhe-ecdsa-aes256-gcm-sha384, tls-ecdhe-rsa-aes128-gcm-sha256, tls-ecdhe-rsa-aes256-gcm-sha384
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls13-cipher [index] *number*

Synopsis	Enter the **tls13-cipher** list instance
Context	**configure** system security tls client-cipher-list *named-item* tls13-cipher *number*
Tree	tls13-cipher
Description	Commands in this context configure the TLS 1.3-supported ciphers used by the client.
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index number of the TLS 1.3 cipher
Context	**configure** system security tls client-cipher-list *named-item* tls13-cipher *number*
Tree	tls13-cipher
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Name of the TLS 1.3 cipher suite code
Context	**configure** system security tls client-cipher-list *named-item* tls13-cipher *number* name *keyword*
Tree	name
Options	tls-aes128-gcm-sha256, tls-aes256-gcm-sha384, tls-chacha20-poly1305-sha256, tls-aes128-ccm-sha256
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-group-list [client-group-list-name] *named-item*

Synopsis	Enter the **client-group-list** list instance
Context	**configure** system security tls client-group-list *named-item*
Tree	client-group-list
Description	Commands in this context configure the list of TLS 1.3-supported group suite codes that the client sends in a client Hello message.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**client-group-list-name**] *named-item*

Synopsis	Name of the TLS client group list
Context	**configure** system security tls client-group-list *named-item*
Tree	client-group-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls13-group [index] *number*

Synopsis	Enter the **tls13-group** list instance
Context	**configure** system security tls client-group-list *named-item* tls13-group *number*
Tree	tls13-group
Description	Commands in this context configure the TLS 1.3-supported group suite codes sent by the client in its Hello messages. SR OS supports the use of Elliptic-Curve Diffie-Hellman Ephemeral (ECDHE) groups.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index number of the TLS 1.3 group
Context	**configure** system security tls client-group-list *named-item* tls13-group *number*
Tree	tls13-group
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Name of the TLS 1.3 group suite code

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Context	**configure** system security tls client-group-list *named-item* tls13-group *number* name *keyword*
Tree	name
Options	tls-ecdhe-256, tls-ecdhe-384, tls-ecdhe-521, tls-x25519, tls-x448, tls-ml-kem1024
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-signature-list [client-signature-list-name] *named-item*

Synopsis	Enter the **client-signature-list** list instance
Context	**configure** system security tls client-signature-list *named-item*
Tree	client-signature-list
Description	Commands in this context configure the list of TLS 1.3-supported signature suite codes that the client sends in a client Hello message.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**client-signature-list-name**] *named-item*

Synopsis	Name of the TLS 1.3 client signature list
Context	**configure** system security tls client-signature-list *named-item*
Tree	client-signature-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls13-signature [index] *number*

Synopsis	Enter the **tls13-signature** list instance
Context	**configure** system security tls client-signature-list *named-item* tls13-signature *number*
Tree	tls13-signature

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Description	Commands in this context configure the TLS 1.3-supported signature suite codes sent by the client in its Hello messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index number of the TLS 1.3 signature
Context	**configure** system security tls client-signature-list *named-item* tls13-signature *number*
Tree	tls13-signature
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Name of the TLS 1.3 signature suite code
Context	**configure** system security tls client-signature-list *named-item* tls13-signature *number* name *keyword*
Tree	name
Options	tls-ecdsa-secp256r1-sha256, tls-ecdsa-secp384r1-sha384, tls-ecdsa-secp521r1-sha512, tls-rsa-pss-rsae-sha256, tls-rsa-pss-rsae-sha384, tls-rsa-pss-rsae-sha512, tls-ed25519, tls-ed448, tls-rsa-pss-pss-sha256, tls-rsa-pss-pss-sha384, tls-rsa-pss-pss-sha512, tls-ml-dsa87
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

client-tls-profile [client-profile-name] *named-item*

Synopsis	Enter the **client-tls-profile** list instance
Context	**configure** system security tls client-tls-profile *named-item*
Tree	client-tls-profile
Max. instances	16
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**client-profile-name**] *named-item*

Synopsis	Client TLS profile name
Context	**configure** system security tls client-tls-profile *named-item*
Tree	client-tls-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the client TLS profile
Context	**configure** system security tls client-tls-profile *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile ID
Context	**configure** system security tls client-tls-profile *named-item* cert-profile *reference*
Tree	cert-profile
Reference	**configure** system security tls cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

cipher-list *reference*

Synopsis	Cipher list for negotiation in the client Hello message

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Context	**configure** system security tls client-tls-profile *named-item* cipher-list *reference*
Tree	cipher-list
Reference	**configure** system security tls client-cipher-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

group-list *reference*

Synopsis	Name of the list of supported group suite codes
Context	**configure** system security tls client-tls-profile *named-item* group-list *reference*
Tree	group-list
Description	This command assigns an existing TLS 1.3 group list to the TLS client profile.
Reference	**configure** system security tls client-group-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-version *keyword*

Synopsis	TLS protocol version used by the TLS client profile
Context	**configure** system security tls client-tls-profile *named-item* protocol-version *keyword*
Tree	protocol-version
Description	This command configures the TLS version to be negotiated between the client and the server. The client adds the specified version as a supported version in its Hello message to the server.
Options	tls-version-all, tls-version-12, tls-version-13
Default	tls-version-12
Introduced	25.3.R2
Platforms	SAR Gen 2

signature-list *reference*

Synopsis	Name of the list of supported signature suite codes
Context	**configure** system security tls client-tls-profile *named-item* signature-list *reference*
Tree	signature-list

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Description	This command assigns an existing TLS 1.3 signature list to the TLS client profile.
Reference	**configure** system security tls client-signature-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

status-verify

Synopsis	Enter the **status-verify** context
Context	**configure** system security tls client-tls-profile *named-item* status-verify
Tree	status-verify
Description	Commands in this context configure certificate revocation status verification options for the end-entity certificate in a TLS client.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-result *keyword*

Synopsis	Default result of certificate status verification
Context	**configure** system security tls client-tls-profile *named-item* status-verify default-result *keyword*
Tree	default-result
Description	This command configures the default result of the entity certificate verification in the TLS client profile. This command overwrites the EE certificate revocation verification for the TLS client profile. By default the router checks the certification revocation status, but if this command is set to **good**, the end-entity certificate revocation status is overwritten and a good revocation status is returned for the EE certificate. If this command is set to **revoked**, the router returns the actual revocation status of the end-entity certificate.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

ee-revocation

Synopsis	Enter the **ee-revocation** context

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Context	**configure** system security tls client-tls-profile *named-item* status-verify ee-revocation
Tree	ee-revocation
Description	Commands in this context configure the methods used to verify the end entity certificate revocation status for the TLS client profile.
Introduced	25.3.R2
Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method used to verify certificate revocation
Context	**configure** system security tls client-tls-profile *named-item* status-verify ee-revocation primary *keyword*
Tree	primary
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** system security tls client-tls-profile *named-item* status-verify ee-revocation secondary *keyword*
Tree	secondary
Options	none, crl, ocsp
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile
Context	**configure** system security tls client-tls-profile *named-item* trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** system security tls trust-anchor-profile *named-item*

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Introduced	25.3.R2
Platforms	SAR Gen 2

server-cipher-list [server-cipher-list-name] *named-item*

Synopsis	Enter the **server-cipher-list** list instance
Context	**configure** system security tls server-cipher-list *named-item*
Tree	server-cipher-list
Description	Commands in this context create a cipher list the server sends to the client in the Hello message. It consists of a list of ciphers supported and preferred by SR OS for use in the TLS session.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**server-cipher-list-name**] *named-item*

Synopsis	Server cipher list name
Context	**configure** system security tls server-cipher-list *named-item*
Tree	server-cipher-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls12-cipher [index] *number*

Synopsis	Enter the **tls12-cipher** list instance
Context	**configure** system security tls server-cipher-list *named-item* tls12-cipher *number*
Tree	tls12-cipher
Description	Commands in this context configure the cipher suite list that is negotiated by the server and client.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**index**] *number*

Synopsis	Index of the cipher
Context	**configure** system security tls server-cipher-list *named-item* tls12-cipher *number*
Tree	tls12-cipher
Description	This command configures the index number of the cipher. The index number provides the location of the cipher in the negotiation list; the lower index numbers are higher in the list, and the higher index numbers are lower in the list.
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Cipher suite code
Context	**configure** system security tls server-cipher-list *named-item* tls12-cipher *number* name *keyword*
Tree	name
Options	tls-rsa-with3des-ede-cbc-sha, tls-rsa-with-aes128-cbc-sha, tls-rsa-with-aes256-cbc-sha, tls-rsa-with-aes128-cbc-sha256, tls-rsa-with-aes256-cbc-sha256, tls-rsa-with-aes128-gcm-sha256, tls-rsa-with-aes256-gcm-sha384, tls-ecdhe-ecdsa-aes128-gcm-sha256, tls-ecdhe-ecdsa-aes256-gcm-sha384, tls-ecdhe-rsa-aes128-gcm-sha256, tls-ecdhe-rsa-aes256-gcm-sha384
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls13-cipher [index] *number*

Synopsis	Enter the **tls13-cipher** list instance
Context	**configure** system security tls server-cipher-list *named-item* tls13-cipher *number*
Tree	tls13-cipher
Description	Commands in this context configure the TLS 1.3-supported ciphers used by the server.
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**index**] *number*

Synopsis	Index number of the TLS 1.3 cipher
Context	**configure** system security tls server-cipher-list *named-item* tls13-cipher *number*
Tree	tls13-cipher
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Name of the TLS 1.3 cipher suite code
Context	**configure** system security tls server-cipher-list *named-item* tls13-cipher *number* name *keyword*
Tree	name
Options	tls-aes128-gcm-sha256, tls-aes256-gcm-sha384, tls-chacha20-poly1305-sha256, tls-aes128-ccm-sha256
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-group-list [server-group-list-name] *named-item*

Synopsis	Enter the **server-group-list** list instance
Context	**configure** system security tls server-group-list *named-item*
Tree	server-group-list
Description	Commands in this context configure the list of TLS 1.3-supported group suite codes that the server sends in a server Hello message.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**server-group-list-name**] *named-item*

Synopsis	Name of the TLS server group list
Context	**configure** system security tls server-group-list *named-item*
Tree	server-group-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls13-group [index] *number*

Synopsis	Enter the **tls13-group** list instance
Context	**configure** system security tls server-group-list *named-item* tls13-group *number*
Tree	tls13-group
Description	Commands in this context configure the TLS 1.3-supported group suite codes sent by the server in its Hello messages. SR OS supports the use of Elliptic-Curve Diffie-Hellman Ephemeral (ECDHE) groups.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index number of the TLS 1.3 group
Context	**configure** system security tls server-group-list *named-item* tls13-group *number*
Tree	tls13-group
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Name of the TLS 1.3 group suite code

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Context	**configure** system security tls server-group-list *named-item* tls13-group *number* name *keyword*
Tree	name
Options	tls-ecdhe-256, tls-ecdhe-384, tls-ecdhe-521, tls-x25519, tls-x448, tls-ml-kem1024
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-signature-list [server-signature-list-name] *named-item*

Synopsis	Enter the **server-signature-list** list instance
Context	**configure** system security tls server-signature-list *named-item*
Tree	server-signature-list
Description	Commands in this context configure the list of TLS 1.3-supported signature suite codes for the digital signature that the server sends in a server Hello message.
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**server-signature-list-name**] *named-item*

Synopsis	Name of the TLS 1.3 server signature list
Context	**configure** system security tls server-signature-list *named-item*
Tree	server-signature-list
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

tls13-signature [index] *number*

Synopsis	Enter the **tls13-signature** list instance
Context	**configure** system security tls server-signature-list *named-item* tls13-signature *number*
Tree	tls13-signature

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Description	Commands in this context configure the TLS 1.3-supported signature suite codes sent by the server in its Hello messages.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**index**] *number*

Synopsis	Index number of the TLS 1.3 signature
Context	**configure** system security tls server-signature-list *named-item* tls13-signature *number*
Tree	tls13-signature
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Name of the TLS 1.3 signature suite code
Context	**configure** system security tls server-signature-list *named-item* tls13-signature *number* name *keyword*
Tree	name
Options	tls-ecdsa-secp256r1-sha256, tls-ecdsa-secp384r1-sha384, tls-ecdsa-secp521r1-sha512, tls-rsa-pss-rsae-sha256, tls-rsa-pss-rsae-sha384, tls-rsa-pss-rsae-sha512, tls-ed25519, tls-ed448, tls-rsa-pss-pss-sha256, tls-rsa-pss-pss-sha384, tls-rsa-pss-pss-sha512, tls-ml-dsa87
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

server-tls-profile [server-profile-name] *named-item*

Synopsis	Enter the **server-tls-profile** list instance
Context	**configure** system security tls server-tls-profile *named-item*
Tree	server-tls-profile
Max. instances	16
Introduced	25.3.R2

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Platforms	SAR Gen 2

[**server-profile-name**] *named-item*

Synopsis	TLS server profile name
Context	**configure** system security tls server-tls-profile *named-item*
Tree	server-tls-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the server TLS profile
Context	**configure** system security tls server-tls-profile *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticate-client

Synopsis	Enter the **authenticate-client** context
Context	**configure** system security tls server-tls-profile *named-item* authenticate-client
Tree	authenticate-client
Introduced	25.3.R2
Platforms	SAR Gen 2

common-name-list *reference*

Synopsis	Common name list for client certificate authentication

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Context	**configure** system security tls server-tls-profile *named-item* authenticate-client common-name-list *reference*
Tree	common-name-list
Reference	**configure** system security pki common-name-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor-profile *reference*

Synopsis	Trust anchor profile for client authentication
Context	**configure** system security tls server-tls-profile *named-item* authenticate-client trust-anchor-profile *reference*
Tree	trust-anchor-profile
Reference	**configure** system security tls trust-anchor-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

cert-profile *reference*

Synopsis	Certificate profile ID
Context	**configure** system security tls server-tls-profile *named-item* cert-profile *reference*
Tree	cert-profile
Reference	**configure** system security tls cert-profile *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

cipher-list *reference*

Synopsis	Cipher list used by the TLS server profile
Context	**configure** system security tls server-tls-profile *named-item* cipher-list *reference*
Tree	cipher-list
Reference	**configure** system security tls server-cipher-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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group-list *reference*

Synopsis	Name of the list of supported group suite codes
Context	**configure** system security tls server-tls-profile *named-item* group-list *reference*
Tree	group-list
Description	This command assigns an existing TLS 1.3 group list to the TLS server profile.
Reference	**configure** system security tls server-group-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol-version *keyword*

Synopsis	TLS protocol version used by the TLS server profile
Context	**configure** system security tls server-tls-profile *named-item* protocol-version *keyword*
Tree	protocol-version
Description	This command configures the TLS version to be negotiated between the server and the client. The server adds the specified version as a supported version in its Hello message to the client.
Options	tls-version-all, tls-version-12, tls-version-13
Default	tls-version-12
Introduced	25.3.R2
Platforms	SAR Gen 2

signature-list *reference*

Synopsis	Name of the list of supported signature suite codes
Context	**configure** system security tls server-tls-profile *named-item* signature-list *reference*
Tree	signature-list
Description	This command assigns an existing TLS 1.3 signature list to the TLS server profile.
Reference	**configure** system security tls server-signature-list *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

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status-verify

Synopsis	Enter the **status-verify** context
Context	**configure** system security tls server-tls-profile *named-item* status-verify
Tree	status-verify
Description	Commands in this context configure certificate revocation status verification options for the end-entity certificate in a TLS server.
Introduced	25.3.R2
Platforms	SAR Gen 2

default-result *keyword*

Synopsis	Default result of certificate status verification
Context	**configure** system security tls server-tls-profile *named-item* status-verify default-result *keyword*
Tree	default-result
Description	This command configures the default result of the entity certificate verification in the TLS server profile. This command overwrites the EE certificate revocation verification for the TLS server profile. By default the router checks the certification revocation status, but if this command is set to **good**, the end-entity certificate revocation status is overwritten and a good revocation status is returned for the EE certificate. If this command is set to **revoked**, the router returns the actual revocation status of the end-entity certificate.
Options	revoked, good
Default	revoked
Introduced	25.3.R2
Platforms	SAR Gen 2

ee-revocation

Synopsis	Enter the **ee-revocation** context
Context	**configure** system security tls server-tls-profile *named-item* status-verify ee-revocation
Tree	ee-revocation
Description	Commands in this context configure the methods used to verify the end entity certificate revocation status for the TLS server profile.
Introduced	25.3.R2

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Platforms	SAR Gen 2

primary *keyword*

Synopsis	Primary method used to verify certificate revocation
Context	**configure** system security tls server-tls-profile *named-item* status-verify ee-revocation primary *keyword*
Tree	primary
Options	crl, ocsp
Default	crl
Introduced	25.3.R2
Platforms	SAR Gen 2

secondary *keyword*

Synopsis	Secondary method used to verify certificate revocation
Context	**configure** system security tls server-tls-profile *named-item* status-verify ee-revocation secondary *keyword*
Tree	secondary
Options	none, crl, ocsp
Default	none
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-re-negotiate-timer *number*

Synopsis	TLS HELLO request timer
Context	**configure** system security tls server-tls-profile *named-item* tls-re-negotiate-timer *number*
Tree	tls-re-negotiate-timer
Range	0 to 65000
Units	minutes
Default	0
Introduced	25.3.R2
Platforms	SAR Gen 2

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trust-anchor-profile [trust-anchor-profile-name] *named-item*

Synopsis	Enter the **trust-anchor-profile** list instance
Context	**configure** system security tls trust-anchor-profile *named-item*
Tree	trust-anchor-profile
Max. instances	16
Introduced	25.3.R2
Platforms	SAR Gen 2

[**trust-anchor-profile-name**] *named-item*

Synopsis	Trust anchor profile name
Context	**configure** system security tls trust-anchor-profile *named-item*
Tree	trust-anchor-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

trust-anchor [ca-profile-name] *reference*

Synopsis	Add a list entry for **trust-anchor**
Context	**configure** system security tls trust-anchor-profile *named-item* trust-anchor *reference*
Tree	trust-anchor
Max. instances	8
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ca-profile-name**] *reference*

Synopsis	Trusted CA profile name
Context	**configure** system security tls trust-anchor-profile *named-item* trust-anchor *reference*
Tree	trust-anchor

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Reference	**configure** system security pki ca-profile *named-item*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

use-pqc-only *boolean*

Synopsis	Negotiate only PQC ciphers, groups, and signatures
Context	**configure** system security tls use-pqc-only *boolean*
Tree	use-pqc-only
Description	When configured to **true**, the router only uses PQC algorithms. When configured to **true**, the system requires that the signature, cipher, and group lists must each have at least one PQC algorithm configured. If this condition is not met, the system does not allow the list to be assigned to an administratively enabled server or client TLS profile. In addition, with this command enabled, TLS 1.3 only advertises PQC algorithms within each list in the TLS handshake and ignores any non-PQC algorithms, if they are present in the list. This is a system-wide token and, when enabled, it affects all TLS sessions. Consequently, it cannot be enabled if any server or client TLS profiles contain existing lists that do not support PQC algorithms. To enable this command, the user must first add a PQC algorithm to all lists that are assigned to administratively enabled profiles. When configured to **false**, the router allows both non-PQC and PQC algorithms to be negotiated.
Default	false
Introduced	26.7.R1
Platforms	SAR Gen 2

user-params

Synopsis	Enter the **user-params** context
Context	**configure** system security user-params
Tree	user-params
Introduced	25.3.R2
Platforms	SAR Gen 2

attempts

Synopsis	Enter the **attempts** context

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Context	**configure** system security user-params attempts
Tree	attempts
Introduced	25.3.R2
Platforms	SAR Gen 2

count *number*

Synopsis	Number of unsuccessful login attempts
Context	**configure** system security user-params attempts count *number*
Tree	count
Range	1 to 64
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

lockout *number*

Synopsis	Lockout period after unsuccessful login attempts
Context	**configure** system security user-params attempts lockout *number*
Tree	lockout
Range	0 to 1440
Units	minutes
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

time *number*

Synopsis	Time frame of unsuccessful login attempts
Context	**configure** system security user-params attempts time *number*
Tree	time
Range	0 to 60
Units	minutes
Default	5
Introduced	25.3.R2

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Platforms SAR Gen 2

authentication-order

Synopsis Enter the **authentication-order** context

Context **configure** system security user-params authentication-order

Tree authentication-order

Description Commands in this context configure the sequence in which the system attempts authentication and authorization among the local user database, RADIUS servers, TACACS+ servers, and LDAP servers.

Configure the order from the most preferred method to the least preferred. The presence of all methods in the command line does not guarantee they are all operational. Specifying options that are not available delays user authentication.

If all operational methods are attempted and no authentication for a particular login has been granted, an entry in the security log records the failed attempt. Both the attempted login identification and originating IP address are logged with a timestamp.

The default order is [**radius tacplus ldap local**].

The order is not applicable to SNMPv3. SNMPv3 messages ignore the configured order and are authorized using the locally configured users only. TACACS+, RADIUS, and LDAP are not supported for SNMPv3 authentication.

Note: This command applies to a local user, in addition to users on RADIUS, TACACS+, and LDAP.

Introduced 25.3.R2

Platforms SAR Gen 2

exit-on-reject *boolean*

Synopsis Ignore subsequent AAA methods after a reject

Context **configure** system security user-params authentication-order exit-on-reject *boolean*

Tree exit-on-reject

Description When configured to **true**, the router stops authentication if one of the AAA methods configured in the authentication order sends a rejection.

When configured to **false**, the router attempts the next AAA method if a AAA method sends a rejection. If all AAA methods are exhausted, authentication and authorization is rejected.

If the order specifies **local** as the first method, the following actions apply:

- If this command is set to **true** and the user does not exist, the user is not authenticated.
- If the user can be authenticated locally, other methods, if configured, are used for authorization and accounting.

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- If the user is configured locally but without console access, login is denied.

Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

order *keyword*

Synopsis	Authentication and authorization order
Context	**configure** system security user-params authentication-order order *keyword*
Tree	order
Description	This command specifies the order of authentication and authorization. The default order is [**radius tacplus ldap local**]
Options	local, radius, tacplus, ldap
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

local-user

Synopsis	Enter the **local-user** context
Context	**configure** system security user-params local-user
Tree	local-user
Introduced	25.3.R2
Platforms	SAR Gen 2

password

Synopsis	Enter the **password** context
Context	**configure** system security user-params local-user password
Tree	password
Introduced	25.3.R2
Platforms	SAR Gen 2

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aging *number*

Synopsis	Maximum time during which a user password is valid
Context	**configure** system security user-params local-user password aging *number*
Tree	aging
Range	1 to 500
Units	days
Introduced	25.3.R2
Platforms	SAR Gen 2

complexity-rules

Synopsis	Enter the **complexity-rules** context
Context	**configure** system security user-params local-user password complexity-rules
Tree	complexity-rules
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-user-name *boolean*

Synopsis	Allow the username to be used as part of the password
Context	**configure** system security user-params local-user password complexity-rules allow-user-name *boolean*
Tree	allow-user-name
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

credits

Synopsis	Enter the **credits** context
Context	**configure** system security user-params local-user password complexity-rules credits
Tree	credits
Notes	The following elements are part of a choice: **credits** or **required**.
Introduced	25.3.R2

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Platforms	SAR Gen 2

lowercase *number*

Synopsis	Maximum credits for the use of lowercase letters
Context	**configure** system security user-params local-user password complexity-rules credits lowercase *number*
Tree	lowercase
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

numeric *number*

Synopsis	Maximum credits for the use of numeric characters
Context	**configure** system security user-params local-user password complexity-rules credits numeric *number*
Tree	numeric
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

special-character *number*

Synopsis	Maximum credits for the use of special characters
Context	**configure** system security user-params local-user password complexity-rules credits special-character *number*
Tree	special-character
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

uppercase *number*

Synopsis	Maximum credits for the use of uppercase letters
Context	**configure** system security user-params local-user password complexity-rules credits uppercase *number*

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Tree	uppercase
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

disallow-sequence-keys *number*

Synopsis	Minimum length of disallowed sequential characters
Context	**configure** system security user-params local-user password complexity-rules disallow-sequence-keys *number*
Tree	disallow-sequence-keys
Description	This command configures the number of consecutive characters that are not allowed to be entered as part of the password on a U.S. English or Korean keyboard. These characters can be lowercase or uppercase letters, or numbers. Special characters are not taken into account. These consecutive characters can be horizontal (left to right) or (right to left) or diagonal (up to bottom or bottom to top). If the number of consecutive characters is equal to or larger than the configured value, the password is disallowed. For example, if the user attempts to use the password "dsalkjhgfdsa", with this command configured to 8, the system rejects the password because the first consecutive sequence "dsa" is 3 lowercase letters, which passes the check, but the second consecutive sequence is "lkjhgfdsa", which consists of 9 consecutive lowercase letters and this does not pass the check.
Range	2 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-classes *number*

Synopsis	Minimum number of different character classes to use
Context	**configure** system security user-params local-user password complexity-rules minimum-classes *number*
Tree	minimum-classes
Range	2 to 4
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-length *number*

Synopsis	Minimum length required for local passwords

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Context	**configure** system security user-params local-user password complexity-rules minimum-length *number*
Tree	minimum-length
Description	This command configures the minimum number of characters required for locally administered passwords, bcrypt and PBKDF2 configured in the **system security** context. If this command is entered multiple times, each command overwrites the previously entered command. The maximum plaintext password length depends on the configured password hash type in the**configure system security user-params local-user password hashing** context. • bcrypt - up to 72 characters • sha2-pbkdf2 and sha3-pbkdf2 - up to 128 characters
Range	6 to 128
Default	6
Introduced	25.3.R2
Platforms	SAR Gen 2

repeated-characters *number*

Synopsis	Number of times same character can repeat consecutively
Context	**configure** system security user-params local-user password complexity-rules repeated-characters *number*
Tree	repeated-characters
Range	2 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

required

Synopsis	Enter the **required** context
Context	**configure** system security user-params local-user password complexity-rules required
Tree	required
Notes	The following elements are part of a choice: **credits** or **required**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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lowercase *number*

Synopsis	Number of lowercase letters required
Context	**configure** system security user-params local-user password complexity-rules required lowercase *number*
Tree	lowercase
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

numeric *number*

Synopsis	Number of numeric characters required
Context	**configure** system security user-params local-user password complexity-rules required numeric *number*
Tree	numeric
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

special-character *number*

Synopsis	Number of special characters required
Context	**configure** system security user-params local-user password complexity-rules required special-character *number*
Tree	special-character
Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

uppercase *number*

Synopsis	Number of uppercase letters required
Context	**configure** system security user-params local-user password complexity-rules required uppercase *number*
Tree	uppercase

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Range	1 to 10
Introduced	25.3.R2
Platforms	SAR Gen 2

hashing *keyword*

Synopsis	Hashing algorithm for user passwords
Context	**configure** system security user-params local-user password hashing *keyword*
Tree	hashing
Options	bcrypt, sha2-pbkdf2, sha3-pbkdf2
Default	bcrypt
Introduced	25.3.R2
Platforms	SAR Gen 2

history-size *number*

Synopsis	Number of previous passwords to compare against
Context	**configure** system security user-params local-user password history-size *number*
Tree	history-size
Range	0 to 20
Introduced	25.3.R2
Platforms	SAR Gen 2

minimum-age *number*

Synopsis	Minimum age required for a password before changing it
Context	**configure** system security user-params local-user password minimum-age *number*
Tree	minimum-age
Range	0 to 86400
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

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minimum-change *number*

Synopsis	Minimum character differences between passwords
Context	**configure** system security user-params local-user password minimum-change *number*
Tree	minimum-change
Range	1 to 20
Default	5
Introduced	25.3.R2
Platforms	SAR Gen 2

user [user-name] *named-item*

Synopsis	Enter the **user** list instance
Context	**configure** system security user-params local-user user *named-item*
Tree	user
Description	Commands in this context configure local users.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**user-name**] *named-item*

Synopsis	Local user name
Context	**configure** system security user-params local-user user *named-item*
Tree	user
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

access

Synopsis	Enter the **access** context
Context	**configure** system security user-params local-user user *named-item* access
Tree	access

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Description	Commands in this context grant a user access to the router management access methods. If a user requires access to more than one method, multiple methods can be specified.
Introduced	25.3.R2
Platforms	SAR Gen 2

console *boolean*

Synopsis	Allow console port, SCP/SFTP, SSH, and Telnet access
Context	**configure** system security user-params local-user user *named-item* access console *boolean*
Tree	console
Description	When configured to **true**, the system allows this access method to take precedence over other access methods in all cases.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

console-port-cli *boolean*

Synopsis	Allow console port CLI access
Context	**configure** system security user-params local-user user *named-item* access console-port-cli *boolean*
Tree	console-port-cli
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ftp *boolean*

Synopsis	Allow FTP access
Context	**configure** system security user-params local-user user *named-item* access ftp *boolean*
Tree	ftp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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grpc *boolean*

Synopsis	Allow gRPC access
Context	**configure** system security user-params local-user user *named-item* access grpc *boolean*
Tree	grpc
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

netconf *boolean*

Synopsis	Allow NETCONF access
Context	**configure** system security user-params local-user user *named-item* access netconf *boolean*
Tree	netconf
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

scp-sftp *boolean*

Synopsis	Allow SCP/SFTP access
Context	**configure** system security user-params local-user user *named-item* access scp-sftp *boolean*
Tree	scp-sftp
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

snmp *boolean*

Synopsis	Allow SNMP access
Context	**configure** system security user-params local-user user *named-item* access snmp *boolean*
Tree	snmp

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Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ssh-cli *boolean*

Synopsis	Allow SSH CLI access
Context	**configure** system security user-params local-user user *named-item* access ssh-cli *boolean*
Tree	ssh-cli
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

telnet-cli *boolean*

Synopsis	Allow Telnet CLI access
Context	**configure** system security user-params local-user user *named-item* access telnet-cli *boolean*
Tree	telnet-cli
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

cli-engine *keyword*

Synopsis	User level override for CLI engine access
Context	**configure** system security user-params local-user user *named-item* cli-engine *keyword*
Tree	cli-engine
Options	classic-cli, md-cli
Max. instances	2
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

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console

Synopsis	Enter the **console** context
Context	**configure** system security user-params local-user user *named-item* console
Tree	console
Introduced	25.3.R2
Platforms	SAR Gen 2

cannot-change-password *boolean*

Synopsis	Change password privileges
Context	**configure** system security user-params local-user user *named-item* console cannot-change-password *boolean*
Tree	cannot-change-password
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

login-exec *string-not-all-spaces*

Synopsis	File to execute when the user logs in
Context	**configure** system security user-params local-user user *named-item* console login-exec *string-not-all-spaces*
Tree	login-exec
String length	1 to 200
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

member *reference*

Synopsis	User profiles for this user
Context	**configure** system security user-params local-user user *named-item* console member *reference*
Tree	member
Reference	**configure** system security aaa local-profiles profile *named-item*

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Max. instances	8
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

new-password-at-login *boolean*

Synopsis	Prompt the user to change their password at next login
Context	**configure** system security user-params local-user user *named-item* console new-password-at-login *boolean*
Tree	new-password-at-login
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

home-directory *cflash-without-slot-url*

Synopsis	Home directory for the user
Context	**configure** system security user-params local-user user *named-item* home-directory *cflash-without-slot-url*
Tree	home-directory
Description	This command configures the home directory of the user for file access. Files can be accessed locally by CLI **file** commands and output modifiers such as **>** (file redirect), or remotely via FTP and SCP. If the home directory does not exist, a warning message is displayed when the user logs in. When **restricted-to-home** is configured, file access is denied unless the **home-directory** is configured and the directory is created by an administrator.
String length	1 to 200
String format	'cflash-without-slot-url' must be cf1-4: followed by path (e.g. cf1:/path)
Introduced	25.3.R2
Platforms	SAR Gen 2

password *hashed-leaf*

Synopsis	User password

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Context	**configure** system security user-params local-user user *named-item* password *hashed-leaf*
Tree	password
String length	3 to 136
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

public-keys

Synopsis	Enter the **public-keys** context
Context	**configure** system security user-params local-user user *named-item* public-keys
Tree	public-keys
Description	Commands in this context configure public keys for SSH.
Introduced	25.3.R2
Platforms	SAR Gen 2

ecdsa

Synopsis	Enter the **ecdsa** context
Context	**configure** system security user-params local-user user *named-item* public-keys ecdsa
Tree	ecdsa
Description	Commands in this context configure Elliptic Curve Digital Signature Algorithm (ECDSA) public keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

ecdsa-key [ecdsa-public-key-id] *number*

Synopsis	Enter the **ecdsa-key** list instance
Context	**configure** system security user-params local-user user *named-item* public-keys ecdsa ecdsa-key *number*
Tree	ecdsa-key
Description	Commands in this context configure an ECDSA public key and associate the key with a username. A user can associate multiple public keys with a username. The key ID identifies these keys for the user.

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**ecdsa-public-key-id**] *number*

Synopsis	ECDSA public key identifier
Context	**configure** system security user-params local-user user *named-item* public-keys ecdsa ecdsa-key *number*
Tree	ecdsa-key
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security user-params local-user user *named-item* public-keys ecdsa ecdsa-key *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

key-value *string-not-all-spaces*

Synopsis	ECDSA public key value
Context	**configure** system security user-params local-user user *named-item* public-keys ecdsa ecdsa-key *number* key-value *string-not-all-spaces*
Tree	key-value
Description	This command configures a value for the ECDSA public key. The public key must be enclosed in quotation marks. For ECDSA, the key is between 1 and 1024 bits.
String length	1 to 255
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

ed25519

Synopsis	Enter the **ed25519** context
Context	**configure** system security user-params local-user user *named-item* public-keys ed25519
Tree	ed25519
Description	Commands in this context configure Edwards-curve Digital Signature Algorithm (EdDSA) Curve25519 (Ed25519) public keys.
Introduced	26.7.R1
Platforms	SAR Gen 2

ed25519-key [ed25519-public-key-id] *number*

Synopsis	Enter the **ed25519-key** list instance
Context	**configure** system security user-params local-user user *named-item* public-keys ed25519 ed25519-key *number*
Tree	ed25519-key
Description	Commands in this context configure an Ed25519 public key and associate the key with a username. A user can associate multiple public keys with a username. The key ID identifies these keys for the user.
Introduced	26.7.R1
Platforms	SAR Gen 2

[**ed25519-public-key-id**] *number*

Synopsis	Ed25519 public key identifier
Context	**configure** system security user-params local-user user *named-item* public-keys ed25519 ed25519-key *number*
Tree	ed25519-key
Range	1 to 32
Notes	This element is part of a list key.
Introduced	26.7.R1
Platforms	SAR Gen 2

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description *description*

Synopsis	Text description
Context	**configure** system security user-params local-user user *named-item* public-keys ed25519 ed25519-key *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

key-value *string-not-all-spaces*

Synopsis	Ed25519 public key value
Context	**configure** system security user-params local-user user *named-item* public-keys ed25519 ed25519-key *number* key-value *string-not-all-spaces*
Tree	key-value
Description	This command configures a value for the Ed25519 public key. The public key must be enclosed in quotation marks. For Ed25519, the key is between 8 and 544 bits.
String length	1 to 68
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	26.7.R1
Platforms	SAR Gen 2

rsa

Synopsis	Enter the **rsa** context
Context	**configure** system security user-params local-user user *named-item* public-keys rsa
Tree	rsa
Description	Commands in this context configure RSA public keys.
Introduced	25.3.R2
Platforms	SAR Gen 2

rsa-key [rsa-public-key-id] *number*

Synopsis	Enter the **rsa-key** list instance

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Context	**configure** system security user-params local-user user *named-item* public-keys rsa rsa-key *number*
Tree	rsa-key
Description	Commands in this context configure an RSA public key and associate the key with a username. A user can associate multiple public keys with a username. The key ID identifies these keys for the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**rsa-public-key-id**] *number*

Synopsis	RSA public key identifier
Context	**configure** system security user-params local-user user *named-item* public-keys rsa rsa-key *number*
Tree	rsa-key
Range	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system security user-params local-user user *named-item* public-keys rsa rsa-key *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

key-value *string-not-all-spaces*

Synopsis	RSA public key value
Context	**configure** system security user-params local-user user *named-item* public-keys rsa rsa-key *number* key-value *string-not-all-spaces*
Tree	key-value

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Description	This command configures a value for the RSA public key. The public key must be enclosed in quotation marks. For RSA, the key is between 768 and 4096 bits.
String length	1 to 800
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

restricted-to-home *boolean*

Synopsis	Restrict file access to the home directory of the user
Context	**configure** system security user-params local-user user *named-item* restricted-to-home *boolean*
Tree	restricted-to-home
Description	When configured to **true**, the router denies the user from accessing files outside of their local home directory. Files can be accessed locally by CLI file commands and output modifiers such as **>** (file redirect). The system denies all configuration save operations (such as **admin save**) via any management interface (such as CLI and NETCONF) unless **save-when-restricted** is enabled. File access is denied unless a home directory is configured and the directory is created by an administrator. When configured to **false**, the router permits the user to access all files on the system and to remote files.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

save-when-restricted *boolean*

Synopsis	Save configurations when the user is restricted to home
Context	**configure** system security user-params local-user user *named-item* save-when-restricted *boolean*
Tree	save-when-restricted
Description	When configured to **true**, the system permits configuration save operations for all configuration regions (such as bof and configure) via any management interface (such as CLI and NETCONF) even if **restricted-to-home** is enabled. The configuration for each region can be saved with **admin save** CLI commands or when committed over NETCONF and gRPC.

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When configured to **false**, the system denies saving the configuration when **restricted-to-home** is enabled, unless the home directory of the user includes the location of the saved configuration file.

Default true

Introduced 25.3.R2

Platforms SAR Gen 2

snmp

Synopsis Enter the **snmp** context

Context **configure** system security user-params local-user user *named-item* snmp

Tree snmp

Introduced 25.3.R2

Platforms SAR Gen 2

authentication

Synopsis Enable the **authentication** context

Context **configure** system security user-params local-user user *named-item* snmp authentication

Tree authentication

Description Commands in this context configure the SNMPv3 authentication and privacy protocols for the user to communicate with the router. The keys are stored in an encrypted format in the configuration.

The keys configured with these commands must be localized keys, which are a hash of the SNMP engine ID and a password. The password is not entered directly in this command. Use the **tools perform system management-interface snmp generate-key** command to generate localized authentication and privacy keys.

If authentication is not configured, only the username is required to allow and authenticate SNMPv3 operations.

Introduced 25.3.R2

Platforms SAR Gen 2

authentication-key *encrypted-leaf-hex-without-prefix*

Synopsis Localized authentication key

Context **configure** system security user-params local-user user *named-item* snmp authentication authentication-key *encrypted-leaf-hex-without-prefix*

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Tree	authentication-key
Description	This command specifies the authentication key for the authentication protocol. The key must be a localized key, which is a hash of the SNMP engine ID and a password. The password is not entered directly in this command. Use the **tools perform system management-interface snmp generate-key** command to generate a localized authentication key. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 166
String format	'encrypted-leaf-hex-without-prefix' must have clear text in hex without 0x or end with hash/hash2/hash3/custom
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-protocol *keyword*

Synopsis	Authentication protocol
Context	**configure** system security user-params local-user user *named-item* snmp authentication authentication-protocol *keyword*
Tree	authentication-protocol
Options	hmac-md5-96, hmac-sha1-96, hmac-sha2-224, hmac-sha2-256, hmac-sha2-384, hmac-sha2-512
Introduced	25.3.R2
Platforms	SAR Gen 2

privacy

Synopsis	Enable the **privacy** context
Context	**configure** system security user-params local-user user *named-item* snmp authentication privacy
Tree	privacy
Introduced	25.3.R2
Platforms	SAR Gen 2

privacy-key *encrypted-leaf-hex-without-prefix*

Synopsis	Localized privacy key

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Context	**configure** system security user-params local-user user *named-item* snmp authentication privacy privacy-key *encrypted-leaf-hex-without-prefix*
Tree	privacy-key
Description	This command specifies the privacy key for the privacy protocol. The key must be a localized key, which is a hash of the SNMP engine ID and a password. The password is not entered directly in this command. Use the **tools perform system management-interface snmp generate-key** command to generate a localized privacy key. This command uses a protected format where the specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 126
String format	'encrypted-leaf-hex-without-prefix' must have clear text in hex without 0x or end with hash/hash2/hash3/custom
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

privacy-protocol *keyword*

Synopsis	Privacy protocol
Context	**configure** system security user-params local-user user *named-item* snmp authentication privacy privacy-protocol *keyword*
Tree	privacy-protocol
Options	cbc-des, cfb128-aes-128, cfb128-aes-192, cfb128-aes-256
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

group *named-item*

Synopsis	User to associate with a group name
Context	**configure** system security user-params local-user user *named-item* snmp group *named-item*
Tree	group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

ssh-authentication-method

Synopsis	Enter the **ssh-authentication-method** context
Context	**configure** system security user-params local-user user *named-item* ssh-authentication-method
Tree	ssh-authentication-method
Introduced	25.3.R2
Platforms	SAR Gen 2

client

Synopsis	Enter the **client** context
Context	**configure** system security user-params local-user user *named-item* ssh-authentication-method client
Tree	client
Introduced	25.3.R2
Platforms	SAR Gen 2

public-key-only *keyword*

Synopsis	Public key only SSH authentication for this user
Context	**configure** system security user-params local-user user *named-item* ssh-authentication-method client public-key-only *keyword*
Tree	public-key-only
Description	This command configures the authentication method accepted for the SSH session for the specified user. This user-level configuration overrides the system-level configuration defined in the **configure system security ssh authentication-method public-key-only** command. When unconfigured, the command inherits the setting from the system level command. The command options are: • **true** — accept only public key client authentication for the SSH server • **false** — accept public key or password client authentication for the SSH server. If **interactive-authentication** is configured to **true** in the **configure system security aaa remote-servers radius** or **configure system security aaa remote-servers tacplus** context, the system also accepts interactive keyboard authentication.
Options	false, true

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Introduced	25.3.R2
Platforms	SAR Gen 2

server

Synopsis	Enter the **server** context
Context	**configure** system security user-params local-user user *named-item* ssh-authentication-method server
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

public-key-only *keyword*

Synopsis	Public key only SSH authentication for this user
Context	**configure** system security user-params local-user user *named-item* ssh-authentication-method server public-key-only *keyword*
Tree	public-key-only
Description	This command configures the authentication method accepted for the SSH session for the specified user. This user-level configuration overrides the system-level configuration defined in the **configure system security ssh authentication-method public-key-only** command. When unconfigured, the command inherits the setting from the system level command. The command options are: • **true** — accept only public key client authentication for the SSH server • **false** — accept public key or password client authentication for the SSH server. If **interactive-authentication** is configured to **true** in the **configure system security aaa remote-servers radius** or **configure system security aaa remote-servers tacplus** context, the system also accepts interactive keyboard authentication.
Options	false, true
Introduced	25.3.R2
Platforms	SAR Gen 2

vprn-network-exceptions

Synopsis	Enable the **vprn-network-exceptions** context
Context	**configure** system security vprn-network-exceptions
Tree	vprn-network-exceptions

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Description	Commands in this context configure the rate limiting attributes for processing packets with label TTL expiry received within an LSP shortcut or VPRN instances in the system and from all network IP interfaces. This includes labeled user and control plan packets, ping, and traceroute packets within GRT and VPRN, and ICMP replies. These commands do not rate limit MPLS or service OAM packets.
Introduced	25.3.R2
Platforms	SAR Gen 2

count *number*

Synopsis	Limit of exception messages received
Context	**configure** system security vprn-network-exceptions count *number*
Tree	count
Description	This command specifies the threshold limit of exception messages. If the threshold value is exceeded within the configured time interval, packets are dropped.
Range	10 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

window *number*

Synopsis	Time interval to measure exception messages
Context	**configure** system security vprn-network-exceptions window *number*
Tree	window
Description	This command configures the time interval within which exception messages are counted. If the threshold value is exceeded within the configured time interval, packets are dropped.
Range	1 to 60
Units	seconds
Default	10
Introduced	25.3.R2
Platforms	SAR Gen 2

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telemetry

Synopsis	Enter the **telemetry** context
Context	**configure** system telemetry
Tree	telemetry
Description	Commands in this context configure the parameters for the dial-out telemetry functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-group [name] *named-item*

Synopsis	Enter the **destination-group** list instance
Context	**configure** system telemetry destination-group *named-item*
Tree	destination-group
Description	Commands in this context configure parameters for destination groups.
Max. instances	225
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Destination group name
Context	**configure** system telemetry destination-group *named-item*
Tree	destination-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-unsecure-connection

Synopsis	Allow connection without secured transport protocol

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Context	**configure** system telemetry destination-group *named-item* allow-unsecure-connection
Tree	allow-unsecure-connection
Description	When configured, this command allows an unsecured connection to remote managers; TCP connections are not encrypted, including username and password information.
Notes	The following elements are part of a choice: **allow-unsecure-connection** or **tls-client-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system telemetry destination-group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination [address] *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*

Synopsis	Enter the **destination** list instance
Context	**configure** system telemetry destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*
Tree	destination
Max. instances	4
Notes	This element is ordered by the user.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**address**] *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)*

Synopsis	Address of the destination within the destination group

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Context	**configure** system telemetry destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*
Tree	destination
String length	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

port *number*

Synopsis	TCP port number for the destination
Context	**configure** system telemetry destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number*
Tree	destination
Range	0 | 1 to 65535
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	**configure** system telemetry destination-group *named-item* destination *(ipv4-address-no-zone | ipv6-address-no-zone | fully-qualified-domain-name)* port *number* router-instance *string*
Tree	router-instance
Introduced	25.3.R2
Platforms	SAR Gen 2

tcp-keepalive

Synopsis	Enter the **tcp-keepalive** context
Context	**configure** system telemetry destination-group *named-item* tcp-keepalive
Tree	tcp-keepalive
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of the TCP keep-alive algorithm
Context	**configure** system telemetry destination-group *named-item* tcp-keepalive admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

idle-time *number*

Synopsis	Time until the first TCP keepalive probe is sent
Context	**configure** system telemetry destination-group *named-item* tcp-keepalive idle-time *number*
Tree	idle-time
Range	1 to 100000
Units	seconds
Default	600
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Time between TCP keepalive probes
Context	**configure** system telemetry destination-group *named-item* tcp-keepalive interval *number*
Tree	interval
Range	1 to 100000
Units	seconds
Default	15
Introduced	25.3.R2
Platforms	SAR Gen 2

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retries *number*

Synopsis	Number of probe retries before closing the connection
Context	**configure** system telemetry destination-group *named-item* tcp-keepalive retries *number*
Tree	retries
Description	This command configures the number of missed TCP keepalive probes before closing the TCP connection and attempting to reach the other destinations within the same destination group.
Range	3 to 100
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

tls-client-profile *reference*

Synopsis	TLS client profile assigned to the destination group
Context	**configure** system telemetry destination-group *named-item* tls-client-profile *reference*
Tree	tls-client-profile
Reference	**configure** system security tls client-tls-profile *named-item*
Notes	The following elements are part of a choice: **allow-unsecure-connection** or **tls-client-profile**.
Introduced	25.3.R2
Platforms	SAR Gen 2

notification-bundling

Synopsis	Enter the **notification-bundling** context
Context	**configure** system telemetry notification-bundling
Tree	notification-bundling
Description	Commands in this context configure the bundling of multiple notifications into one telemetry message.
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of notification bundling
Context	**configure** system telemetry notification-bundling admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

max-msg-count *number*

Synopsis	Maximum notifications count in telemetry message bundle
Context	**configure** system telemetry notification-bundling max-msg-count *number*
Tree	max-msg-count
Range	2 to 1000
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

max-time-granularity *number*

Synopsis	Maximum interval when bundling of notifications occurs
Context	**configure** system telemetry notification-bundling max-time-granularity *number*
Tree	max-time-granularity
Description	This command sets the maximum time interval during which telemetry notifications are bundled. All bundled notifications have the same timestamp, which is the timestamp of the bundle.
Range	1 to 1000
Units	milliseconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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persistent-subscriptions

Synopsis	Enter the **persistent-subscriptions** context
Context	**configure** system telemetry persistent-subscriptions
Tree	persistent-subscriptions
Introduced	25.3.R2
Platforms	SAR Gen 2

delay-on-boot *number*

Synopsis	Delay for persistent subscriptions after system boot
Context	**configure** system telemetry persistent-subscriptions delay-on-boot *number*
Tree	delay-on-boot
Description	This command configures the delay timer for gRPC telemetry persistent subscriptions. When the timer expires, gRPC telemetry persistent subscriptions become operational and connections are initiated. This delay prevents the system from trying to establish gRPC persistent subscriptions while it is still converging. When no delay is configured, gRPC telemetry persistent subscriptions are initiated after the system boots and gRPC becomes operational.
Range	1 to 3600
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

subscription [name] *named-item*

Synopsis	Enter the **subscription** list instance
Context	**configure** system telemetry persistent-subscriptions subscription *named-item*
Tree	subscription
Max. instances	225
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Persistent subscription name

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Context	**configure** system telemetry persistent-subscriptions subscription *named-item*
Tree	subscription
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the persistent subscription
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

destination-group *reference*

Synopsis	Name of the destination group used in the subscription
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* destination-group *reference*
Tree	destination-group

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Reference	**configure** system telemetry destination-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

encoding *keyword*

Synopsis	Encoding used for telemetry notifications
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* encoding *keyword*
Tree	encoding
Description	This command specifies the encoding used for telemetry notifications as defined by the gNMI OpenConfig standard.
Options	json – JSON encoded text bytes – Encoded according to gnmi.schemas proto – Encoded with scalar TypedValue values json-ietf – JSON encoded text as per RFC 7951
Default	json
Introduced	25.3.R2
Platforms	SAR Gen 2

local-source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	Local IP address of packets sent from the source
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* local-source-address *(ipv4-address-no-zone | ipv6-address-no-zone)*
Tree	local-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

mode *keyword*

Synopsis	Mode for telemetry notifications
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* mode *keyword*
Tree	mode
Description	This command specifies the subscription path mode for telemetry notifications sent out for the persistent subscription.

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Options	target-defined, on-change, sample
Introduced	25.3.R2
Platforms	SAR Gen 2

originated-qos-marking *keyword*

Synopsis	QoS marking used for telemetry notification packets
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* originated-qos-marking *keyword*
Tree	originated-qos-marking
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	25.3.R2
Platforms	SAR Gen 2

sample-interval *number*

Synopsis	Sampling interval for the persistent subscription
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* sample-interval *number*
Tree	sample-interval
Description	This command configures the sampling interval for the persistent subscription. The interval applies only in sampling or target-defined modes.
Range	1000 to 18446744073709551615
Units	milliseconds
Default	10000
Introduced	25.3.R2
Platforms	SAR Gen 2

sensor-group *reference*

Synopsis	Sensor group used in the persistent subscription
Context	**configure** system telemetry persistent-subscriptions subscription *named-item* sensor-group *reference*

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Tree	sensor-group
Description	This command specifies the sensor group to be used in the persistent subscription. If no valid paths exist in the sensor group, the configuration is accepted, however, no gRPC connection is established when persistent subscription is activated.
Reference	**configure** system telemetry sensor-groups sensor-group *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

sensor-groups

Synopsis	Enter the **sensor-groups** context
Context	**configure** system telemetry sensor-groups
Tree	sensor-groups
Introduced	25.3.R2
Platforms	SAR Gen 2

sensor-group [name] *named-item*

Synopsis	Enter the **sensor-group** list instance
Context	**configure** system telemetry sensor-groups sensor-group *named-item*
Tree	sensor-group
Max. instances	225
Introduced	25.3.R2
Platforms	SAR Gen 2

[**name**] *named-item*

Synopsis	Sensor group name
Context	**configure** system telemetry sensor-groups sensor-group *named-item*
Tree	sensor-group
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system telemetry sensor-groups sensor-group *named-item* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

path [xpath] *string*

Synopsis	Add a list entry for **path**
Context	**configure** system telemetry sensor-groups sensor-group *named-item* path *string*
Tree	path
Max. instances	4500
Introduced	25.3.R2
Platforms	SAR Gen 2

[**xpath**] *string*

Synopsis	gNMI path to be streamed
Context	**configure** system telemetry sensor-groups sensor-group *named-item* path *string*
Tree	path
Description	This command configures a path for the specified sensor group. Multiple paths can be defined for a single sensor group. Streamed data includes all descendants of the tree indicated by the path. The path is defined in the form of an XML Path (XPath) syntax that refers to single or multiple objects within the YANG model. The path must be enclosed in quotation marks (") when it includes a list key, for example, "/state/router[router-name=Base]".
String length	1 to 512
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

thresholds

Synopsis	Enter the **thresholds** context
Context	**configure** system thresholds
Tree	thresholds
Introduced	25.3.R2
Platforms	SAR Gen 2

cflash-cap-alarm-percent [cflash-id] *thresholds-cflash-url*

Synopsis	Enter the **cflash-cap-alarm-percent** list instance
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url*
Tree	cflash-cap-alarm-percent
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cflash-id**] *thresholds-cflash-url*

Synopsis	cflash device name monitored for capacity
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url*
Tree	cflash-cap-alarm-percent
String length	1 to 200
String format	'thresholds-cflash-url' must be cf1-4 with slot A-D (e.g. cf1-A:)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

falling-threshold *number*

Synopsis	Falling threshold for the sampled statistic
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url* falling-threshold *number*
Tree	falling-threshold

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Description	This command specifies a falling threshold for the sampled statistic. When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single threshold-crossing event is generated. A single threshold-crossing event is also generated if the first sample taken is less than or equal to this threshold and the associated **startup-alarm** command is equal to the **falling** or **either** values. After a falling threshold-crossing event is generated, another such event is not generated until the sampled value rises above this threshold and reaches greater than or equal to the **rising-threshold** command.
Range	0 to 100
Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Polling period over which data is sampled and compared
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url* interval *number*
Tree	interval
Description	This command specifies the polling interval over which the data is sampled and compared with the rising and falling thresholds.
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rising-threshold *number*

Synopsis	Rising threshold for the sampled statistic
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url* rising-threshold *number*
Tree	rising-threshold
Description	This command specifies a rising threshold for the sampled statistic. When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single threshold-crossing event is generated. A single threshold crossing event is also generated if the first sample taken is greater than or equal to this threshold and the associated **startup-alarm** command is equal to the **rising** or **either** values.

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After a rising threshold-crossing event is generated, another such event is not generated until the sampled value falls below this threshold and reaches less than or equal the **falling-threshold** command.

Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rmon-event-type *keyword*

Synopsis	Notification type specifying action when event occurs
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url* rmon-event-type *keyword*
Tree	rmon-event-type
Options	none, log, trap, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-alarm *keyword*

Synopsis	Alarm type when the alarm is first created
Context	**configure** system thresholds cflash-cap-alarm-percent *thresholds-cflash-url* startup-alarm *keyword*
Tree	startup-alarm
Description	This command specifies the alarm type that may be sent when this alarm is first created. If the first sample is greater than or equal to the rising threshold value and **startup-alarm** is equal to **rising** or **either**, a single rising threshold crossing event is generated. If the first sample is less than or equal to the falling threshold value and **startup-alarm** is equal to **falling** or **either**, a single falling threshold crossing event is generated.
Options	rising – Raise TCA if threshold is crossed in upward direction falling – Raise TCA if threshold is crossed in downward direction either – Raise TCA if threshold is crossed from either direction
Default	either
Introduced	25.3.R2
Platforms	SAR Gen 2

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cflash-cap-warn-percent [cflash-id] *thresholds-cflash-url*

Synopsis	Enter the **cflash-cap-warn-percent** list instance
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url*
Tree	cflash-cap-warn-percent
Description	Commands in this context configure the capacity monitoring of the compact flash. The usage is monitored as a percentage of the capacity of the compact flash. The severity level is warning. Both a rising and falling threshold can be specified.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**cflash-id**] *thresholds-cflash-url*

Synopsis	cflash device name monitored for capacity
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url*
Tree	cflash-cap-warn-percent
String length	1 to 200
String format	'thresholds-cflash-url' must be cf1-4 with slot A-D (e.g. cf1-A:)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

falling-threshold *number*

Synopsis	Falling threshold for the sampled statistic
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url* falling-threshold *number*
Tree	falling-threshold
Description	This command specifies a falling threshold for the sampled statistic. When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single threshold-crossing event is generated. A single threshold-crossing event is also generated if the first sample taken is less than or equal to this threshold and the associated **startup-alarm** command is equal to the **falling** or **either** values. After a falling threshold-crossing event is generated, another such event is not generated until the sampled value rises above this threshold and reaches greater than or equal to the **rising-threshold** command.
Range	0 to 100

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Units	percent
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Polling period over which data is sampled and compared
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url* interval *number*
Tree	interval
Description	This command specifies the polling interval over which the data is sampled and compared with the rising and falling thresholds.
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rising-threshold *number*

Synopsis	Rising threshold for the sampled statistic
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url* rising-threshold *number*
Tree	rising-threshold
Description	This command specifies a rising threshold for the sampled statistic. When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single threshold-crossing event is generated. A single threshold crossing event is also generated if the first sample taken is greater than or equal to this threshold and the associated **startup-alarm** command is equal to the **rising** or **either** values. After a rising threshold-crossing event is generated, another such event is not generated until the sampled value falls below this threshold and reaches less than or equal the **falling-threshold** command.
Range	0 to 100
Units	percent
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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rmon-event-type *keyword*

Synopsis	Notification type specifying action when event occurs
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url* rmon-event-type *keyword*
Tree	rmon-event-type
Options	none, log, trap, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-alarm *keyword*

Synopsis	Alarm type when the alarm is first created
Context	**configure** system thresholds cflash-cap-warn-percent *thresholds-cflash-url* startup-alarm *keyword*
Tree	startup-alarm
Description	This command specifies the alarm type that may be sent when this alarm is first created. If the first sample is greater than or equal to the rising threshold value and **startup-alarm** is equal to **rising** or **either**, a single rising threshold crossing event is generated. If the first sample is less than or equal to the falling threshold value and **startup-alarm** is equal to **falling** or **either**, a single falling threshold crossing event is generated.
Options	rising – Raise TCA if threshold is crossed in upward direction falling – Raise TCA if threshold is crossed in downward direction either – Raise TCA if threshold is crossed from either direction
Default	either
Introduced	25.3.R2
Platforms	SAR Gen 2

kb-memory-use-alarm

Synopsis	Enable the **kb-memory-use-alarm** context
Context	**configure** system thresholds kb-memory-use-alarm
Tree	kb-memory-use-alarm
Introduced	25.3.R2
Platforms	SAR Gen 2

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falling-threshold *number*

Synopsis	Falling threshold for the sampled statistic
Context	**configure** system thresholds kb-memory-use-alarm falling-threshold *number*
Tree	falling-threshold
Description	This command specifies a falling threshold for the sampled statistic. When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single threshold-crossing event is generated. A single threshold-crossing event is also generated if the first sample taken is less than or equal to this threshold and the associated **startup-alarm** command is equal to the **falling** or **either** values. After a falling threshold-crossing event is generated, another such event is not generated until the sampled value rises above this threshold and reaches greater than or equal to the **rising-threshold** command.
Range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Polling period over which data is sampled and compared
Context	**configure** system thresholds kb-memory-use-alarm interval *number*
Tree	interval
Description	This command specifies the polling interval over which the data is sampled and compared with the rising and falling thresholds.
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rising-threshold *number*

Synopsis	Rising threshold for the sampled statistic
Context	**configure** system thresholds kb-memory-use-alarm rising-threshold *number*
Tree	rising-threshold
Description	This command specifies a rising threshold for the sampled statistic. When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single threshold-crossing event is

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generated. A single threshold crossing event is also generated if the first sample taken is greater than or equal to this threshold and the associated **startup-alarm** command is equal to the **rising** or **either** values.

After a rising threshold-crossing event is generated, another such event is not generated until the sampled value falls below this threshold and reaches less than or equal the **falling-threshold** command.

Range	-2147483648 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rmon-event-type *keyword*

Synopsis	Notification type specifying action when event occurs
Context	**configure** system thresholds kb-memory-use-alarm rmon-event-type *keyword*
Tree	rmon-event-type
Options	none, log, trap, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-alarm *keyword*

Synopsis	Alarm type when the alarm is first created
Context	**configure** system thresholds kb-memory-use-alarm startup-alarm *keyword*
Tree	startup-alarm
Description	This command specifies the alarm type that may be sent when this alarm is first created. If the first sample is greater than or equal to the rising threshold value and **startup-alarm** is equal to **rising** or **either**, a single rising threshold crossing event is generated. If the first sample is less than or equal to the falling threshold value and **startup-alarm** is equal to **falling** or **either**, a single falling threshold crossing event is generated.
Options	rising – Raise TCA if threshold is crossed in upward direction falling – Raise TCA if threshold is crossed in downward direction either – Raise TCA if threshold is crossed from either direction
Default	either
Introduced	25.3.R2
Platforms	SAR Gen 2

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kb-memory-use-warn

Synopsis	Enable the **kb-memory-use-warn** context
Context	**configure** system thresholds kb-memory-use-warn
Tree	kb-memory-use-warn
Introduced	25.3.R2
Platforms	SAR Gen 2

falling-threshold *number*

Synopsis	Falling threshold for the sampled statistic
Context	**configure** system thresholds kb-memory-use-warn falling-threshold *number*
Tree	falling-threshold
Description	This command specifies a falling threshold for the sampled statistic. When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single threshold-crossing event is generated. A single threshold-crossing event is also generated if the first sample taken is less than or equal to this threshold and the associated **startup-alarm** command is equal to the **falling** or **either** values. After a falling threshold-crossing event is generated, another such event is not generated until the sampled value rises above this threshold and reaches greater than or equal to the **rising-threshold** command.
Range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

interval *number*

Synopsis	Polling period over which data is sampled and compared
Context	**configure** system thresholds kb-memory-use-warn interval *number*
Tree	interval
Description	This command specifies the polling interval over which the data is sampled and compared with the rising and falling thresholds.
Range	1 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

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rising-threshold *number*

Synopsis	Rising threshold for the sampled statistic
Context	**configure** system thresholds kb-memory-use-warn rising-threshold *number*
Tree	rising-threshold
Description	This command specifies a rising threshold for the sampled statistic. When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single threshold-crossing event is generated. A single threshold crossing event is also generated if the first sample taken is greater than or equal to this threshold and the associated **startup-alarm** command is equal to the **rising** or **either** values. After a rising threshold-crossing event is generated, another such event is not generated until the sampled value falls below this threshold and reaches less than or equal the **falling-threshold** command.
Range	-2147483648 to 2147483647
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

rmon-event-type *keyword*

Synopsis	Notification type specifying action when event occurs
Context	**configure** system thresholds kb-memory-use-warn rmon-event-type *keyword*
Tree	rmon-event-type
Options	none, log, trap, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-alarm *keyword*

Synopsis	Alarm type when the alarm is first created
Context	**configure** system thresholds kb-memory-use-warn startup-alarm *keyword*
Tree	startup-alarm
Description	This command specifies the alarm type that may be sent when this alarm is first created. If the first sample is greater than or equal to the rising threshold value and **startup-alarm** is equal to **rising** or **either**, a single rising threshold crossing event is generated.

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	If the first sample is less than or equal to the falling threshold value and **startup-alarm** is equal to **falling** or **either**, a single falling threshold crossing event is generated.
Options	rising – Raise TCA if threshold is crossed in upward direction falling – Raise TCA if threshold is crossed in downward direction either – Raise TCA if threshold is crossed from either direction
Default	either
Introduced	25.3.R2
Platforms	SAR Gen 2

rmon

Synopsis	Enter the **rmon** context
Context	**configure** system thresholds rmon
Tree	rmon
Introduced	25.3.R2
Platforms	SAR Gen 2

alarm [rmon-alarm-id] *number*

Synopsis	Enter the **alarm** list instance
Context	**configure** system thresholds rmon alarm *number*
Tree	alarm
Description	Commands in this context configure an entry in the RMON-MIB alarmTable and controls the monitoring and triggering of threshold crossing events. At least one associated **configure system thresholds rmon event** command must be configured to trigger the notification or logging of a threshold crossing event. The agent periodically takes statistical sample values from the MIB variable specified for monitoring and compares them to thresholds configured with this command. This command configures the MIB variable for monitoring, the polling period (interval), the sampling type (absolute or delta value), and the rising and falling threshold commands. If a sample has crossed a threshold value, the associated event is generated.
Max. instances	1200
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**rmon-alarm-id**] *number*

Synopsis	RMON alarm identifier
Context	**configure** system thresholds rmon alarm *number*
Tree	alarm
Range	0 to 65400
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

falling-event *number*

Synopsis	RMON event ID for falling threshold crossing event
Context	**configure** system thresholds rmon alarm *number* falling-event *number*
Tree	falling-event
Range	0 to 65400
Introduced	25.3.R2
Platforms	SAR Gen 2

falling-threshold *number*

Synopsis	Threshold for the falling sampled statistic
Context	**configure** system thresholds rmon alarm *number* falling-threshold *number*
Tree	falling-threshold
Description	This command configures the router to create a threshold event when the current sampled value is less than or equal to this threshold value, and the value at the last sampling interval was greater than this threshold. A single threshold crossing event is also generated if the first sample taken is less than or equal to this threshold and the associated **startup-alarm** is equal to **falling** or **either**. After a falling threshold crossing event is generated, another such event is not generated until the sampled value rises above this threshold and reaches greater than or equal to the **rising-threshold** value.
Range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

Synopsis	Polling period over which data is sampled and compared
Context	**configure** system thresholds rmon alarm *number* interval *number*
Tree	interval
Description	This command specifies the polling interval over which the data is sampled and compared with the rising and falling thresholds. When setting this interval value, take care in the case of **delta** type sampling, set the interval short enough that the sampled variable is very unlikely to increase or decrease by more than 2147483647 - 1 during a single sampling interval. Take care to avoid setting the interval value too low, to avoid creating unnecessary processing overhead.
Range	1 to 2147483647
Units	seconds
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *string*

Synopsis	Owner that created this entry and uses the resources
Context	**configure** system thresholds rmon alarm *number* owner *string*
Tree	owner
Description	This command configures the owner of the alarm. This command allows entries created in the RMON-MIB alarmTable by remote SNMP managers to save and reload in a CLI configuration file. CLI users do not normally configure the owner.
String length	1 to 80
Default	TiMOS CLI
Introduced	25.3.R2
Platforms	SAR Gen 2

rising-event *number*

Synopsis	RMON event ID for rising threshold crossing event
Context	**configure** system thresholds rmon alarm *number* rising-event *number*
Tree	rising-event

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Range	0 to 65400
Introduced	25.3.R2
Platforms	SAR Gen 2

rising-threshold *number*

Synopsis	Threshold for the rising sampled statistic
Context	**configure** system thresholds rmon alarm *number* rising-threshold *number*
Tree	rising-threshold
Description	This command configures the router to create a single threshold crossing event when the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold. A single threshold crossing event is also generated if the first sample taken is greater than or equal to this threshold and the associated **startup-alarm** is equal to **rising** or **either**. After a rising threshold crossing event is generated, another such event is not generated until the sampled value falls below this threshold and reaches less than or equal the **falling-threshold** value.
Range	-2147483648 to 2147483647
Introduced	25.3.R2
Platforms	SAR Gen 2

sample-type *keyword*

Synopsis	Sampling type for value comparison with thresholds
Context	**configure** system thresholds rmon alarm *number* sample-type *keyword*
Tree	sample-type
Options	absolute – Value compared with end sampling interval thresholds delta – Selected minus current and compared with thresholds
Default	absolute
Introduced	25.3.R2
Platforms	SAR Gen 2

startup-alarm *keyword*

Synopsis	TCA type eligible to be raised on the test's first poll
Context	**configure** system thresholds rmon alarm *number* startup-alarm *keyword*

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Tree	startup-alarm
Options	rising – Raise TCA if threshold is crossed in upward direction falling – Raise TCA if threshold is crossed in downward direction either – Raise TCA if threshold is crossed from either direction
Default	either
Introduced	25.3.R2
Platforms	SAR Gen 2

variable-oid *string*

Synopsis	Object identifier to sample the specific variable
Context	**configure** system thresholds rmon alarm *number* variable-oid *string*
Tree	variable-oid
Description	This command configures the SNMP object identifier of the particular variable for sampling. Only SNMP variables that resolve to an ASN.1 primitive type of integer (Integer32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled. The *oid-string* may be expressed using either the dotted string notation or as object name plus dotted instance identifier. For example, "1.3.6.1.2.1.2.2.1.10.184582144" or "ifInOctets.184582144".
String length	1 to 255
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

event [rmon-event-id] *number*

Synopsis	Enter the **event** list instance
Context	**configure** system thresholds rmon event *number*
Tree	event
Max. instances	1200
Introduced	25.3.R2
Platforms	SAR Gen 2

[**rmon-event-id**] *number*

Synopsis	Index ID for an entry in the event table

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Context	**configure** system thresholds rmon event *number*
Tree	event
Range	1 to 65400
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** system thresholds rmon event *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

event-type *keyword*

Synopsis	Notification action to be taken when the event occurs
Context	**configure** system thresholds rmon event *number* event-type *keyword*
Tree	event-type
Options	none, log, trap, both
Default	both
Introduced	25.3.R2
Platforms	SAR Gen 2

owner *string*

Synopsis	Owner that created this entry and uses the resources
Context	**configure** system thresholds rmon event *number* owner *string*
Tree	owner
Description	This command configures the owner of the alarm.

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This command allows entries created in the RMON-MIB alarmTable by remote SNMP managers to save and reload in a CLI configuration file. CLI users do not normally configure the owner.

String length	1 to 80
Default	TiMOS CLI
Introduced	25.3.R2
Platforms	SAR Gen 2

hc-alarm [rmon-hc-alarm-id] *number*

Synopsis	Enter the **hc-alarm** list instance
Context	**configure** system thresholds rmon hc-alarm *number*
Tree	hc-alarm
Description	Commands in this context configure an entry in the HC-ALARM-MIB hcAlarmTable and controls the monitoring and triggering of threshold crossing events. At least one associated **configure system thresholds rmon event** command must be configured to trigger the notification or logging of a threshold crossing event. The agent periodically takes statistical sample values from the MIB variable specified for monitoring and compares them to thresholds configured with this command. This command configures the MIB variable for monitoring, the polling period (interval), the sampling type (absolute or delta value), and the rising and falling threshold commands. If a sample has crossed a threshold value, the associated event is generated.
Max. instances	1200
Introduced	25.10.R1
Platforms	SAR Gen 2

[**rmon-hc-alarm-id**] *number*

Synopsis	RMON high capacity alarm identifier
Context	**configure** system thresholds rmon hc-alarm *number*
Tree	hc-alarm
Range	1 to 65400
Notes	This element is part of a list key.
Introduced	25.10.R1
Platforms	SAR Gen 2

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falling-event *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	RMON event ID for falling threshold crossing event
Context	**configure** system thresholds rmon hc-alarm *number* falling-event *number*
Tree	falling-event
Range	1 to 65400
Introduced	25.10.R1
Platforms	SAR Gen 2

falling-threshold *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Threshold for the falling sampled statistic
Context	**configure** system thresholds rmon hc-alarm *number* falling-threshold *number*
Tree	falling-threshold
Description	This command configures the router to create a threshold event when the current sampled value is less than or equal to this threshold value, and the value at the last sampling interval was greater than this threshold. A single threshold crossing event is also generated if the first sample taken is less than or equal to this threshold and the associated **startup-alarm** is equal to **falling** or **either**. After a falling threshold crossing event is generated, another such event is not generated until the sampled value rises above this threshold and reaches greater than or equal to the **rising-threshold** value.
Range	-9223372036854775806 to 9223372036854775807
Introduced	25.10.R1
Platforms	SAR Gen 2

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interval *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Polling period over which data is sampled and compared
Context	**configure** system thresholds rmon hc-alarm *number* interval *number*
Tree	interval
Description	This command specifies the polling interval over which the data is sampled and compared with the rising and falling thresholds.
Range	1 to 2147483647
Units	seconds
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

owner *string-not-all-spaces*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Owner that created this entry and uses the resources
Context	**configure** system thresholds rmon hc-alarm *number* owner *string-not-all-spaces*
Tree	owner
Description	This command configures the owner of the entry. This command allows entries created in the HC-ALARM-MIB hcAlarmTable by a remote SNMP or YANG manager to be tagged as belonging to a set of entries defined by the manager.
String length	1 to 127
Default	TiMOS CLI
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.10.R1
Platforms	SAR Gen 2

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rising-event *number*

WARNING:
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Synopsis	RMON event ID for rising threshold crossing event
Context	**configure** system thresholds rmon hc-alarm *number* rising-event *number*
Tree	rising-event
Range	1 to 65400
Introduced	25.10.R1
Platforms	SAR Gen 2

rising-threshold *number*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Threshold for the rising sampled statistic
Context	**configure** system thresholds rmon hc-alarm *number* rising-threshold *number*
Tree	rising-threshold
Description	This command configures the router to create a single threshold crossing event when the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold. A single threshold crossing event is also generated if the first sample taken is greater than or equal to this threshold and the associated **startup-alarm** is equal to **rising** or **either**. After a rising threshold crossing event is generated, another such event is not generated until the sampled value falls below this threshold and reaches less than or equal the **falling-threshold** value.
Range	-9223372036854775806 to 9223372036854775807
Introduced	25.10.R1
Platforms	SAR Gen 2

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sample-type *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Sampling type for value comparison with thresholds
Context	**configure** system thresholds rmon hc-alarm *number* sample-type *keyword*
Tree	sample-type
Options	absolute – Value compared with end sampling interval thresholds delta – Selected minus current and compared with thresholds
Default	absolute
Introduced	25.10.R1
Platforms	SAR Gen 2

startup-alarm *keyword*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	TCA type eligible to be raised on the test's first poll
Context	**configure** system thresholds rmon hc-alarm *number* startup-alarm *keyword*
Tree	startup-alarm
Options	rising – Raise TCA if threshold is crossed in upward direction falling – Raise TCA if threshold is crossed in downward direction either – Raise TCA if threshold is crossed from either direction
Default	either
Introduced	25.10.R1
Platforms	SAR Gen 2

variable-oid *string*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Object identifier to sample the specific variable

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Context	**configure** system thresholds rmon hc-alarm *number* variable-oid *string*
Tree	variable-oid
Description	This command configures the SNMP object identifier of the particular variable for sampling. Only SNMP variables that resolve to an ASN.1 primitive type of integer (Integer32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled. The *oid-string* may be expressed using either the dotted string notation or as object name plus dotted instance identifier. For example, "1.3.6.1.2.1.2.2.1.10.184582144" or "ifInOctets.184582144".
String length	1 to 255
Notes	This element is mandatory.
Introduced	25.10.R1
Platforms	SAR Gen 2

time

Synopsis	Enter the **time** context
Context	**configure** system time
Tree	time
Introduced	25.3.R2
Platforms	SAR Gen 2

daylight-saving-time-zone

Synopsis	Enter the **daylight-saving-time-zone** context
Context	**configure** system time daylight-saving-time-zone
Tree	daylight-saving-time-zone
Description	Commands in this context configure the start and end dates and offset for summer time (or Daylight Savings Time [DST]). A daylight savings time zone can be specified using a standard name or a non-standard name. The parameters (start day, end day, and offset) for a standard name zone are well defined and not configurable. The parameters for a nonstandard name zone are configurable. The time is adjusted by adding the offset when summer time starts and subtracting the offset when summer time ends. If no summer (daylight savings) time is supplied, the system assumes no summer time adjustment is required.
Introduced	25.3.R2
Platforms	SAR Gen 2

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non-standard

Synopsis	Enter the **non-standard** context
Context	**configure** system time daylight-saving-time-zone non-standard
Tree	non-standard
Notes	The following elements are part of a choice: **non-standard** or **standard**.
Introduced	25.3.R2
Platforms	SAR Gen 2

end

Synopsis	Enter the **end** context
Context	**configure** system time daylight-saving-time-zone non-standard end
Tree	end
Description	Commands in this context configure the end of summer time settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

day *keyword*

Synopsis	Day of the week when summer time ends
Context	**configure** system time daylight-saving-time-zone non-standard end day *keyword*
Tree	day
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Default	sunday
Introduced	25.3.R2
Platforms	SAR Gen 2

hours-minutes *hours-minutes-twenty-four*

Synopsis	Time when summer time ends, in hh:mm format
Context	**configure** system time daylight-saving-time-zone non-standard end hours-minutes *hours-minutes-twenty-four*
Tree	hours-minutes
String length	5

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Default	00:00
String format	'hours-minutes-twenty-four' must be hh:mm, hours 00-23, minutes 00-59 (e.g. 14:30)
Introduced	25.3.R2
Platforms	SAR Gen 2

month *keyword*

Synopsis	Month when summer time ends
Context	**configure** system time daylight-saving-time-zone non-standard end month *keyword*
Tree	month
Options	january, february, march, april, may, june, july, august, september, october, november, december
Default	january
Introduced	25.3.R2
Platforms	SAR Gen 2

week *keyword*

Synopsis	Week of the month when summer time ends
Context	**configure** system time daylight-saving-time-zone non-standard end week *keyword*
Tree	week
Options	first, second, third, fourth, last
Default	first
Introduced	25.3.R2
Platforms	SAR Gen 2

name *string*

Synopsis	Nonstandard summer time zone name
Context	**configure** system time daylight-saving-time-zone non-standard name *string*
Tree	name
String length	1 to 5
String format	'name' must contain only lowercase letters and digits (e.g. utc5)
Introduced	25.3.R2
Platforms	SAR Gen 2

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offset *number*

Synopsis	Summer time offset
Context	**configure** system time daylight-saving-time-zone non-standard offset *number*
Tree	offset
Description	This command configures the number of minutes that are added to the time when summer time takes effect. The same number of minutes are subtracted from the time when summer time ends.
Range	0 to 60
Units	minutes
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

start

Synopsis	Enter the **start** context
Context	**configure** system time daylight-saving-time-zone non-standard start
Tree	start
Description	Commands in this context configure the start of summer time settings.
Introduced	25.3.R2
Platforms	SAR Gen 2

day *keyword*

Synopsis	Day of the week when summer time starts
Context	**configure** system time daylight-saving-time-zone non-standard start day *keyword*
Tree	day
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Default	sunday
Introduced	25.3.R2
Platforms	SAR Gen 2

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hours-minutes *hours-minutes-twenty-four*

Synopsis	Time when summer time starts, in hh:mm format
Context	**configure** system time daylight-saving-time-zone non-standard start hours-minutes *hours-minutes-twenty-four*
Tree	hours-minutes
String length	5
Default	00:00
String format	'hours-minutes-twenty-four' must be hh:mm, hours 00-23, minutes 00-59 (e.g. 14:30)
Introduced	25.3.R2
Platforms	SAR Gen 2

month *keyword*

Synopsis	Month when summer time starts
Context	**configure** system time daylight-saving-time-zone non-standard start month *keyword*
Tree	month
Options	january, february, march, april, may, june, july, august, september, october, november, december
Default	january
Introduced	25.3.R2
Platforms	SAR Gen 2

week *keyword*

Synopsis	Week of the month when summer time starts
Context	**configure** system time daylight-saving-time-zone non-standard start week *keyword*
Tree	week
Options	first, second, third, fourth, last
Default	first
Introduced	25.3.R2
Platforms	SAR Gen 2

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standard

Synopsis	Enter the **standard** context
Context	**configure** system time daylight-saving-time-zone standard
Tree	standard
Notes	The following elements are part of a choice: **non-standard** or **standard**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Standard time zone name
Context	**configure** system time daylight-saving-time-zone standard name *keyword*
Tree	name
Options	adt – Atlantic Daylight Time ndt – Newfoundland Daylight Time akdt – Alaska Daylight Time cdt – Central Daylight Time cest – Central European Summer Time edt – Eastern Daylight Time eest – Eastern European Summer Time mdt – Mountain Daylight Time nzdt – New Zealand Daylight Time pdt – Pacific Daylight Time west – Western European Summer Time
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp

Synopsis	Enable the **ntp** context
Context	**configure** system time ntp
Tree	ntp
Introduced	25.3.R2
Platforms	SAR Gen 2

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admin-state *keyword*

Synopsis	Administrative state of NTP execution
Context	**configure** system time ntp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-check *boolean*

Synopsis	Authenticate NTP PDUs and reject mismatches
Context	**configure** system time ntp authentication-check *boolean*
Tree	authentication-check
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-key [key-id] *number*

Synopsis	Enter the **authentication-key** list instance
Context	**configure** system time ntp authentication-key *number*
Tree	authentication-key
Introduced	25.3.R2
Platforms	SAR Gen 2

[**key-id**] *number*

Synopsis	Authentication key ID used for NTP packets
Context	**configure** system time ntp authentication-key *number*
Tree	authentication-key
Range	1 to 255
Notes	This element is part of a list key.
Introduced	25.3.R2

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Platforms	SAR Gen 2

key *encrypted-leaf*

Synopsis	Key to authenticate NTP packets
Context	**configure** system time ntp authentication-key *number* key *encrypted-leaf*
Tree	key
Description	This command specifies the key to authenticate NTP packets in a protected format. The specific format is indicated by the **hash**, **hash2**, **hash3**, or **custom** suffix. See "Configuration secrets" in the *7705 SAR Gen 2 System Management Guide* for more information.
String length	1 to 126
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

type *keyword*

Synopsis	Authentication method to authenticate NTP packet
Context	**configure** system time ntp authentication-key *number* type *keyword*
Tree	type
Options	des, message-digest
Notes	This element is mandatory.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Authentication keychain for unsolicited traffic
Context	**configure** system time ntp authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the authentication keychain used to handle unsolicited NTP requests. If a request is received with a key ID that matches both a configured key and the keychain, the MAC is checked first using the key information. If the authentication fails, the MAC is checked using the information from the keychain.

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Reference	**configure** system security keychains keychain *named-item*
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast [router-instance] *reference* interface-name *interface-name*

Synopsis	Enter the **broadcast** list instance
Context	**configure** system time ntp broadcast *reference* interface-name *interface-name*
Tree	broadcast
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-instance**] *reference*

Synopsis	Router name
Context	**configure** system time ntp broadcast *reference* interface-name *interface-name*
Tree	broadcast
Reference	**configure** router *named-item-64*
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface to transmit or receive NTP broadcast packets
Context	**configure** system time ntp broadcast *reference* interface-name *interface-name*
Tree	broadcast
String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to authenticate broadcast messages

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Context	**configure** system time ntp broadcast *reference* interface-name *interface-name* authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the keychain used to authenticate messages sent by this node. The keychain infrastructure is queried using this keychain name to get the youngest key used for generating the authentication value for the message. When an NTP packet is received by this node, the keychain infrastructure is queried using the keychain name and the key ID extracted from the received message to get the key used to perform the authentication check. If authentication does not pass, the packet is rejected. Keychain entries also have a direction. The key ID and authentication keychain are mutually exclusive. When neither one is set, for example, the key ID has a value of '0' and the value of this command is empty, no authentication is performed.
Reference	**configure** system security keychains keychain *named-item*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-id *reference*

Synopsis	Authentication key and type used by the node
Context	**configure** system time ntp broadcast *reference* interface-name *interface-name* key-id *reference*
Tree	key-id
Reference	**configure** system time ntp authentication-key *number*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

ttl *number*

Synopsis	TTL of messages transmitted by the broadcast address
Context	**configure** system time ntp broadcast *reference* interface-name *interface-name* ttl *number*
Tree	ttl
Range	1 to 255
Default	127
Introduced	25.3.R2

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Platforms	SAR Gen 2

version *number*

Synopsis	NTP version number generated by the node
Context	**configure** system time ntp broadcast *reference* interface-name *interface-name* version *number*
Tree	version
Range	2 to 4
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

broadcast-client [router-instance] *string* interface-name *interface-name*

Synopsis	Enter the **broadcast-client** list instance
Context	**configure** system time ntp broadcast-client *string* interface-name *interface-name*
Tree	broadcast-client
Introduced	25.3.R2
Platforms	SAR Gen 2

[**router-instance**] *string*

Synopsis	Router name or VPRN service name
Context	**configure** system time ntp broadcast-client *string* interface-name *interface-name*
Tree	broadcast-client
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

interface-name *interface-name*

Synopsis	Interface to transmit or receive NTP broadcast packets
Context	**configure** system time ntp broadcast-client *string* interface-name *interface-name*
Tree	broadcast-client

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String length	1 to 32
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticate *boolean*

Synopsis	Enforce authentication of NTP PDUs
Context	**configure** system time ntp broadcast-client *string* interface-name *interface-name* authenticate *boolean*
Tree	authenticate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

max-poll *number*

Synopsis	Value for the maximum polling interval as a power of 2
Context	**configure** system time ntp max-poll *number*
Tree	max-poll
Description	This command configures the value used to calculate the maximum polling interval set for the server. The poll interval set by NTP may be as high as the configured number to the power of 2. For example, if 6 is configured, 2 to the power of 6 (2^6) equals 64. If the value is set to a number lower than the **configure system time ntp min-poll** value, the system rejects the change request.
Range	4 to 10
Default	6
Introduced	26.7.R1
Platforms	SAR Gen 2

min-poll *number*

Synopsis	Value for the minimum polling interval as a power of 2
Context	**configure** system time ntp min-poll *number*
Tree	min-poll

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Description	This command configures the value used to calculate the minimum polling interval set for the server. The poll interval set by NTP may be as low as the configured number to the power of 2. For example, if 6 is configured, 2 to the power of 6 (2^6) equals 64. If the value is set to a number higher than the **configure system time ntp max-poll**, the system rejects the change request.
Range	4 to 10
Default	6
Introduced	26.7.R1
Platforms	SAR Gen 2

multicast

Synopsis	Enable the **multicast** context
Context	**configure** system time ntp multicast
Tree	multicast
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to authenticate broadcast messages
Context	**configure** system time ntp multicast authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the keychain used to authenticate messages sent by this node. The keychain infrastructure is queried using this keychain name to get the youngest key used for generating the authentication value for the message. When an NTP packet is received by this node, the keychain infrastructure is queried using the keychain name and the key ID extracted from the received message to get the key used to perform the authentication check. If authentication does not pass, the packet is rejected. Keychain entries also have a direction. The key ID and authentication keychain are mutually exclusive. When neither one is set, for example, the key ID has a value of '0' and the value of this command is empty, no authentication is performed.
Reference	**configure** system security keychains keychain *named-item*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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key-id *reference*

Synopsis	Authentication key and type used by the node
Context	**configure** system time ntp multicast key-id *reference*
Tree	key-id
Reference	**configure** system time ntp authentication-key *number*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

version *number*

Synopsis	NTP version number generated by the node
Context	**configure** system time ntp multicast version *number*
Tree	version
Description	This command specifies the NTP version number that is generated by the node. This command does not need to be configured when in client mode, in which case all three versions are accepted.
Range	2 to 4
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

multicast-client

Synopsis	Enable the **multicast-client** context
Context	**configure** system time ntp multicast-client
Tree	multicast-client
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticate *boolean*

Synopsis	Enforce authentication of NTP PDUs
Context	**configure** system time ntp multicast-client authenticate *boolean*

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Tree	authenticate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

ntp-server

Synopsis	Enable the **ntp-server** context
Context	**configure** system time ntp ntp-server
Tree	ntp-server
Introduced	25.3.R2
Platforms	SAR Gen 2

authenticate *boolean*

Synopsis	Authentication of NTP PDUs when acting as a server
Context	**configure** system time ntp ntp-server authenticate *boolean*
Tree	authenticate
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

peer [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string*

Synopsis	Enter the **peer** list instance
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string*
Tree	peer
Introduced	25.3.R2
Platforms	SAR Gen 2

[ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone)*

Synopsis	IP address of the peer for a peering relationship
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string*

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Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string*
Tree	peer
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to authenticate broadcast messages
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string* authentication-keychain *reference*
Tree	authentication-keychain
Description	This command configures the keychain used to authenticate messages sent by this node. The keychain infrastructure is queried using this keychain name to get the youngest key used for generating the authentication value for the message. When an NTP packet is received by this node, the keychain infrastructure is queried using the keychain name and the key ID extracted from the received message to get the key used to perform the authentication check. If authentication does not pass, the packet is rejected. Keychain entries also have a direction. The key ID and authentication keychain are mutually exclusive. When neither one is set, for example, the key ID has a value of '0' and the value of this command is empty, no authentication is performed.
Reference	**configure** system security keychains keychain *named-item*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

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key-id *reference*

Synopsis	Authentication key and type used by the node
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string* key-id *reference*
Tree	key-id
Reference	**configure** system time ntp authentication-key *number*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer *boolean*

Synopsis	Set NTP server as preferred to receive time
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string* prefer *boolean*
Tree	prefer
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

version *number*

Synopsis	NTP version number generated by the node
Context	**configure** system time ntp peer *(ipv4-address-no-zone | ipv6-address-no-zone)* router-instance *string* version *number*
Tree	version
Description	This command specifies the NTP version number that is generated by the node. This command does not need to be configured when in client mode, in which case all three versions are accepted.
Range	2 to 4
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

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server [ip-address] *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)* router-instance *string*

Synopsis	Enter the **server** list instance
Context	**configure** system time ntp server *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)* router-instance *string*
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)*

Synopsis	IP address of an external NTP server
Context	**configure** system time ntp server *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)* router-instance *string*
Tree	server
Options	ptp
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *string*

Synopsis	Router name or VPRN service name
Context	**configure** system time ntp server *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)* router-instance *string*
Tree	server
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

authentication-keychain *reference*

Synopsis	Keychain used to authenticate broadcast messages
Context	**configure** system time ntp server *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)* router-instance *string* authentication-keychain *reference*

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Tree	authentication-keychain
Description	This command configures the keychain used to authenticate messages sent by this node. The keychain infrastructure is queried using this keychain name to get the youngest key used for generating the authentication value for the message. When an NTP packet is received by this node, the keychain infrastructure is queried using the keychain name and the key ID extracted from the received message to get the key used to perform the authentication check. If authentication does not pass, the packet is rejected. Keychain entries also have a direction. The key ID and authentication keychain are mutually exclusive. When neither one is set, for example, the key ID has a value of '0' and the value of this command is empty, no authentication is performed.
Reference	**configure** system security keychains keychain *named-item*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

key-id *reference*

Synopsis	Authentication key and type used by the node
Context	**configure** system time ntp server *(ipv4-address-no-zone* | *ipv6-address-no-zone* | *keyword)* router-instance *string* key-id *reference*
Tree	key-id
Reference	**configure** system time ntp authentication-key *number*
Notes	The following elements are part of a choice: **authentication-keychain** or **key-id**.
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer *boolean*

Synopsis	Set NTP server as preferred to receive time
Context	**configure** system time ntp server *(ipv4-address-no-zone* | *ipv6-address-no-zone* | *keyword)* router-instance *string* prefer *boolean*
Tree	prefer
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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version *number*

Synopsis	NTP version number generated by the node
Context	**configure** system time ntp server *(ipv4-address-no-zone | ipv6-address-no-zone | keyword)* router-instance *string* version *number*
Tree	version
Description	This command specifies the NTP version number that is generated by the node. This command does not need to be configured when in client mode, in which case all three versions are accepted.
Range	2 to 4
Default	4
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer-local-time *boolean*

Synopsis	Use local time over UTC time in the system
Context	**configure** system time prefer-local-time *boolean*
Tree	prefer-local-time
Description	When configured to **true**, the system uses local time. This preference is applied to objects such as log file names, created and completed times reported in log files, NETCONF and gRPC date-and-time leafs, and rollback times displayed in **show** command outputs. When configured to **false**, the system uses UTC time. **Note**: The timezone used for **show** command outputs during a CLI session can be controlled using the **environment time-display** command. **Note**: The format used for the date-time strings may change, depending on the command setting. For example, when this command is set to **true**, all date-time strings include a suffix of three to five characters that indicates the timezone used. **Note**: The time format for timestamps on log events is controlled on a per-log basis, using the **configure log log-id time-format** command.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

sntp

Synopsis	Enter the **sntp** context

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Context	**configure** system time sntp
Tree	sntp
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of SNTP
Context	**configure** system time sntp admin-state *keyword*
Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

server [ip-address] *ipv4-address*

Synopsis	Enter the **server** list instance
Context	**configure** system time sntp server *ipv4-address*
Tree	server
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *ipv4-address*

Synopsis	IP address of the SNTP server
Context	**configure** system time sntp server *ipv4-address*
Tree	server
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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interval *number*

Synopsis	Frequency of querying the server
Context	**configure** system time sntp server *ipv4-address* interval *number*
Tree	interval
Range	64 to 1024
Units	seconds
Default	64
Introduced	25.3.R2
Platforms	SAR Gen 2

prefer *boolean*

Synopsis	Preference value for this SNTP server
Context	**configure** system time sntp server *ipv4-address* prefer *boolean*
Tree	prefer
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

version *number*

Synopsis	SNTP version supported by this server
Context	**configure** system time sntp server *ipv4-address* version *number*
Tree	version
Range	1 to 3
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

sntp-state *keyword*

Synopsis	Mode for Simple Network Time Protocol (SNTP)
Context	**configure** system time sntp sntp-state *keyword*
Tree	sntp-state

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Options	unicast, broadcast
Default	unicast
Introduced	25.3.R2
Platforms	SAR Gen 2

zone

Synopsis	Enter the **zone** context
Context	**configure** system time zone
Tree	zone
Introduced	25.3.R2
Platforms	SAR Gen 2

non-standard

Synopsis	Enter the **non-standard** context
Context	**configure** system time zone non-standard
Tree	non-standard
Notes	The following elements are part of a choice: **non-standard** or **standard**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *string*

Synopsis	Non-standard time zone name
Context	**configure** system time zone non-standard name *string*
Tree	name
String length	1 to 5
String format	'name' must contain only lowercase letters and digits (e.g. utc5)
Introduced	25.3.R2
Platforms	SAR Gen 2

offset *hours-minutes-with-range*

Synopsis	Offset from UTC

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Context	**configure** system time zone non-standard offset *hours-minutes-with-range*
Tree	offset
String length	5 to 6
String format	'hours-minutes-with-range' must be hh:mm; hours -11 to 12, minutes 00-59, and if the hour is 12, the minutes must be 00 (max value 12:00)
Introduced	25.3.R2
Platforms	SAR Gen 2

standard

Synopsis	Enter the **standard** context
Context	**configure** system time zone standard
Tree	standard
Notes	The following elements are part of a choice: **non-standard** or **standard**.
Introduced	25.3.R2
Platforms	SAR Gen 2

name *keyword*

Synopsis	Standard time zone name
Context	**configure** system time zone standard name *keyword*
Tree	name
Options	hst, akst, pst, mst, cst, est, ast, nst, utc, gmt, wet, cet, eet, msk, msd, awst, acst, aest, nzst
Default	utc
Introduced	25.3.R2
Platforms	SAR Gen 2

transmission-profile [name] *named-item*

Synopsis	Enter the **transmission-profile** list instance
Context	**configure** system transmission-profile *named-item*
Tree	transmission-profile
Introduced	25.3.R2
Platforms	SAR Gen 2

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[**name**] *named-item*

Synopsis	File transmission profile name
Context	**configure** system transmission-profile *named-item*
Tree	transmission-profile
String length	1 to 32
String format	'string-not-all-spaces' must contain at least one non-space character
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

http-version *keyword*

Synopsis	HTTP version
Context	**configure** system transmission-profile *named-item* http-version *keyword*
Tree	http-version
Options	1.0, 1.1
Default	1.1
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv4-source-address *ipv4-unicast-address*

Synopsis	IPv4 source address used for the transport protocol
Context	**configure** system transmission-profile *named-item* ipv4-source-address *ipv4-unicast-address*
Tree	ipv4-source-address
String format	'ipv4-address' must use only digits and dots (no %zone) 'ipv4-address' must be a.b.c.d with each octet 0-255 (no zone-id)
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6-source-address *ipv6-address*

Synopsis	IPv6 source address used for the transport protocol

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Context	**configure** system transmission-profile *named-item* ipv6-source-address *ipv6-address*
Tree	ipv6-source-address
Introduced	25.3.R2
Platforms	SAR Gen 2

redirection *number*

Synopsis	Maximum level of redirection
Context	**configure** system transmission-profile *named-item* redirection *number*
Tree	redirection
Range	1 to 8
Introduced	25.3.R2
Platforms	SAR Gen 2

retry *number*

Synopsis	Number of attempts to reconnecting to the server
Context	**configure** system transmission-profile *named-item* retry *number*
Tree	retry
Range	1 to 256
Introduced	25.3.R2
Platforms	SAR Gen 2

router-instance *router-instance-base-management-vprn-loose*

Synopsis	Router instance used by the transport protocol
Context	**configure** system transmission-profile *named-item* router-instance *router-instance-base-management-vprn-loose*
Tree	router-instance
String length	1 to 64
Default	Base
Introduced	25.3.R2
Platforms	SAR Gen 2

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timeout *number*

Synopsis	Timeout for a response from the server
Context	**configure** system transmission-profile *named-item* timeout *number*
Tree	timeout
Range	1 to 3600
Units	seconds
Default	60
Introduced	25.3.R2
Platforms	SAR Gen 2

usb [usb-cflash] *keyword*

Synopsis	Enter the **usb** list instance
Context	**configure** system usb *keyword*
Tree	usb
Description	Commands in this context configure the operational state of the USB port.
Introduced	25.3.R2
Platforms	SAR Gen 2

[**usb-cflash**] *keyword*

Synopsis	Specifies the compact flash ID
Context	**configure** system usb *keyword*
Tree	usb
Options	cf2
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the USB port
Context	**configure** system usb *keyword* admin-state *keyword*
Tree	admin-state

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Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.30 test-oam commands

```
configure
   – test-oam
      – apply-groups reference
      – apply-groups-exclude reference
      – icmp
         – ipv6
            – apply-groups reference
            – apply-groups-exclude reference
            – length-field boolean
            – maximum-original-datagram boolean
      – mpls
         – apply-groups reference
         – apply-groups-exclude reference
         – echo-request-downstream-map keyword
         – timestamp-format keyword
      – twamp
         – apply-groups reference
         – apply-groups-exclude reference
         – server
            – admin-state keyword
            – allow-ipv6-udp-checksum-zero boolean
            – apply-groups reference
            – apply-groups-exclude reference
            – enforce-test-session-start-time boolean
            – inactivity-timeout number
            – max-connections number
            – max-sessions number
            – prefix (ipv4-prefix | ipv6-prefix)
               – apply-groups reference
               – apply-groups-exclude reference
               – description description
               – max-connections number
               – max-sessions number
         – twamp-light
            – apply-groups reference
            – apply-groups-exclude reference
            – inactivity-timeout number
```


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4.30.1 test-oam command descriptions

test-oam

Synopsis	Enter the **test-oam** context
Context	**configure** test-oam
Tree	test-oam
Introduced	25.3.R2
Platforms	SAR Gen 2

icmp

Synopsis	Enter the **icmp** context
Context	**configure** test-oam icmp
Tree	icmp
Introduced	25.3.R2
Platforms	SAR Gen 2

ipv6

Synopsis	Enter the **ipv6** context
Context	**configure** test-oam icmp ipv6
Tree	ipv6
Introduced	25.3.R2
Platforms	SAR Gen 2

length-field *boolean*

Synopsis	Use length field in ICMPv6 responses
Context	**configure** test-oam icmp ipv6 length-field *boolean*
Tree	length-field
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

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maximum-original-datagram *boolean*

Synopsis	ICMPv6 traceroute responses with largest datagram
Context	**configure** test-oam icmp ipv6 maximum-original-datagram *boolean*
Tree	maximum-original-datagram
Description	When configured to **true**, this command enables the original datagram field of the ICMPv6 error message to be a maximum of 1232 bytes. When configured to **false**, the original datagram field of the ICMPv6 error message smaller than 1232 bytes be built smaller.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

mpls

Synopsis	Enter the **mpls** context
Context	**configure** test-oam mpls
Tree	mpls
Introduced	25.3.R2
Platforms	SAR Gen 2

echo-request-downstream-map *keyword*

Synopsis	Format of the downstream mapping TLV
Context	**configure** test-oam mpls echo-request-downstream-map *keyword*
Tree	echo-request-downstream-map
Description	This command specifies the format of the downstream mapping TLV to use in all LSP trace packets and LDP tree trace packets originated on this node. The following downstream mapping TLVs are supported: the original Downstream Mapping (DSMAP) TLV, defined in RFC 4379 (obsoleted by RFC 8029) and the Downstream Detailed Mapping (DDMAP) TLV, defined in RFC 6424. See the "DDMAP TLV" section in the *7705 SAR Gen 2 OAM and Diagnostics Guide* for more information.
Options	dsmap – Downstream Mapping TLV ddmap – Downstream Detailed Mapping TLV
Default	dsmap
Introduced	25.3.R2

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Platforms	SAR Gen 2

timestamp-format *keyword*

Synopsis	Timestamp format for MPLS ping request and reply PDUs
Context	**configure** test-oam mpls timestamp-format *keyword*
Tree	timestamp-format
Options	rfc4379 – 1900-based timestamp (standard) unix – 1970-based timestamp
Default	unix
Introduced	25.3.R2
Platforms	SAR Gen 2

twamp

Synopsis	Enter the **twamp** context
Context	**configure** test-oam twamp
Tree	twamp
Description	Commands in this context configure the TWAMP functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

server

Synopsis	Enter the **server** context
Context	**configure** test-oam twamp server
Tree	server
Description	Commands in this context configure the node for TWAMP server functionality.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of the TWAMP server
Context	**configure** test-oam twamp server admin-state *keyword*

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Tree	admin-state
Options	enable, disable
Default	disable
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-ipv6-udp-checksum-zero *boolean*

Synopsis	Process IPv6 packets with a zero UDP checksum
Context	**configure** test-oam twamp server allow-ipv6-udp-checksum-zero *boolean*
Tree	allow-ipv6-udp-checksum-zero
Description	When configured to **true**, the router accepts IPv6 packets with UDP checksums of 0. This optional configuration allows the router to process arriving IPv6 TWAMP Test packets that contain IPv6 UDP checksum of 0x0000. The UDP port specific to this TWAMP Light test bypasses the default discard IPv6 UDP checksum 0x0000. If this optional command is not configured, IPv6 UDP checksum 0x000 arriving packets are discarded. When configured to **false**, the router discards packets that arrive with an IPv6 UDP checksum of 0x0000.
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

enforce-test-session-start-time *boolean*

Synopsis	Discard TWAMP packets before test-session start time
Context	**configure** test-oam twamp server enforce-test-session-start-time *boolean*
Tree	enforce-test-session-start-time
Description	When configured to **true**, the router checks the signalled test-session start time against the server time and discards TWAMP test packets that arrive before the negotiated test-session start time. When configured to **false**, the router processes all TWAMP test packets without checking the test-session start time against the server time.
Default	true
Introduced	25.3.R2
Platforms	SAR Gen 2

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inactivity-timeout *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Inactivity time-out for TWAMP control connections
Context	**configure** test-oam twamp server inactivity-timeout *number*
Tree	inactivity-timeout
Description	This command configures the inactivity time-out for all TWAMP-control connections. If no TWAMP control message is exchanged over the TCP connection for this duration of time the connection is closed and all in-progress tests are terminated.
Range	60 to 3600
Units	seconds
Default	900
Introduced	25.3.R2
Platforms	SAR Gen 2

max-connections *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	TWAMP server control connections limit
Context	**configure** test-oam twamp server max-connections *number*
Tree	max-connections
Description	This command configures the maximum number of TWAMP control connections from all TWAMP clients. The system rejects a new control connection if accepting it causes either this limit or a prefix limit (**prefix max-connections**) to be exceeded.
Range	0 to 64
Default	32
Introduced	25.3.R2
Platforms	SAR Gen 2

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max-sessions *number*

WARNING:
Modifying this element toggles the **admin-state** of the parent element automatically for the new value to take effect.

Synopsis	Maximum number of concurrent TWAMP server test sessions
Context	**configure** test-oam twamp server max-sessions *number*
Tree	max-sessions
Description	This command configures the maximum number of concurrent TWAMP-Test sessions across all allowed clients. The system rejects a new test session (described by a Request-TW-Session message) if accepting it causes either the limit defined by this command or a prefix limit (**prefix max-sessions**) to be exceeded.
Range	0 to 128
Default	32
Introduced	25.3.R2
Platforms	SAR Gen 2

prefix [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **prefix** list instance
Context	**configure** test-oam twamp server prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix
Description	Commands in this context configure an IP address prefix containing one or more TWAMP clients. For a TWAMP client to connect to the TWAMP server (and subsequently conduct tests) it must establish the control connection using an IP address that is part of a configured prefix.
Max. instances	100
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Prefix to match against TWAMP client address
Context	**configure** test-oam twamp server prefix *(ipv4-prefix | ipv6-prefix)*
Tree	prefix

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Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** test-oam twamp server prefix *(ipv4-prefix | ipv6-prefix)* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

max-connections *number*

Synopsis	Maximum number of control connections for TWAMP prefix
Context	**configure** test-oam twamp server prefix *(ipv4-prefix | ipv6-prefix)* max-connections *number*
Tree	max-connections
Description	This command configures the maximum number of control connections by clients with an IP address in a specific prefix. The system rejects a new control connection if accepting it causes either the prefix limit defined by this command or the server limit (**server max-connections**) to be exceeded.
Range	0 to 64
Default	32
Introduced	25.3.R2
Platforms	SAR Gen 2

max-sessions *number*

Synopsis	Maximum concurrent TWAMP test sessions based on prefix
Context	**configure** test-oam twamp server prefix *(ipv4-prefix | ipv6-prefix)* max-sessions *number*
Tree	max-sessions
Description	This command configures the maximum number of concurrent TWAMP-Test sessions by clients with an IP address in a specific prefix. The system rejects a new test session

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(described by a Request-TW-Session message) if accepting it causes either the limit defined by this command or the server limit (**server max-sessions**) to be exceeded.

Range	0 to 128
Default	32
Introduced	25.3.R2
Platforms	SAR Gen 2

twamp-light

Synopsis	Enter the **twamp-light** context
Context	**configure** test-oam twamp twamp-light
Tree	twamp-light
Introduced	25.3.R2
Platforms	SAR Gen 2

inactivity-timeout *number*

Synopsis	Time to maintain stale state on the session reflector
Context	**configure** test-oam twamp twamp-light inactivity-timeout *number*
Tree	inactivity-timeout
Range	10 to 100
Units	seconds
Default	100
Introduced	25.3.R2
Platforms	SAR Gen 2

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4.31 vrrp commands

```
configure
   – vrrp
      – apply-groups reference
      – apply-groups-exclude reference
      – policy number
         – admin-state keyword
         – apply-groups reference
         – apply-groups-exclude reference
         – context service-name
         – delta-in-use-limit number
         – description description
         – priority-event
            – host-unreachable (ipv4-address-with-zone | ipv6-address-with-zone)
               – apply-groups reference
               – apply-groups-exclude reference
               – drop-count number
               – hold-clear number
               – hold-set number
               – padding-size number
               – priority
                  – event-type keyword
                  – priority-level number
               – request-interval number
               – timeout number
            – lag-port-down lag-interface
               – apply-groups reference
               – apply-groups-exclude reference
               – hold-clear number
               – hold-set number
               – number-down number
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – priority
                     – event-type keyword
                     – priority-level number
               – weight-down number
                  – apply-groups reference
                  – apply-groups-exclude reference
                  – priority
                     – event-type keyword
                     – priority-level number
            – mc-ipsec-non-forwarding number
               – apply-groups reference
               – apply-groups-exclude reference
               – hold-clear number
               – hold-set number
               – priority
                  – event-type keyword
                  – priority-level number
            – port-down port-named
               – apply-groups reference
               – apply-groups-exclude reference
               – hold-clear number
               – hold-set number
               – priority
                  – event-type keyword
                  – priority-level number
            – route-unknown (ipv4-prefix | ipv6-prefix)
               – apply-groups reference
```


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configure vrrp policy priority-event route-unknown apply-groups-exclude

```
                - apply-groups-exclude reference
                - hold-clear number
                - hold-set number
                - less-specific
                  - allow-default boolean
                - next-hop (ipv4-address-with-zone | ipv6-address-with-zone)
                - priority
                  - event-type keyword
                  - priority-level number
                - protocol keyword
```


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4.31.1 vrrp command descriptions

vrrp

Synopsis	Enter the **vrrp** context
Context	**configure** vrrp
Tree	vrrp
Introduced	25.3.R2
Platforms	SAR Gen 2

policy [policy-id] *number*

Synopsis	Enter the **policy** list instance
Context	**configure** vrrp policy *number*
Tree	policy
Introduced	25.3.R2
Platforms	SAR Gen 2

[**policy-id**] *number*

Synopsis	Policy ID
Context	**configure** vrrp policy *number*
Tree	policy
Range	1 to 9999
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

admin-state *keyword*

Synopsis	Administrative state of VRRP priority control policy
Context	**configure** vrrp policy *number* admin-state *keyword*
Tree	admin-state
Options	enable, disable

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Default	enable
Introduced	25.3.R2
Platforms	SAR Gen 2

context *service-name*

WARNING:
Modifying this element recreates the parent element automatically for the new value to take effect.

Synopsis	Service name to which this policy applies
Context	**configure** vrrp policy *number* context *service-name*
Tree	context
String length	1 to 64
String format	'service-name' must contain at least one non-space character
Introduced	25.3.R2
Platforms	SAR Gen 2

delta-in-use-limit *number*

Synopsis	Limit on the delta priority control events
Context	**configure** vrrp policy *number* delta-in-use-limit *number*
Tree	delta-in-use-limit
Range	1 to 254
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

description *description*

Synopsis	Text description
Context	**configure** vrrp policy *number* description *description*
Tree	description
String length	1 to 80
String format	'string-not-all-spaces' must contain at least one non-space character
Introduced	25.3.R2

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Platforms	SAR Gen 2

priority-event

Synopsis	Enter the **priority-event** context
Context	**configure** vrrp policy *number* priority-event
Tree	priority-event
Introduced	25.3.R2
Platforms	SAR Gen 2

host-unreachable [ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Enter the **host-unreachable** list instance
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	host-unreachable
Introduced	25.3.R2
Platforms	SAR Gen 2

[ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Host IP address that receives a constant ping probe
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	host-unreachable
Description	This command configures the host IP address for which the specific host unreachable priority event monitors connectivity with a continuous ICMP echo request (ping) probe.
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

drop-count *number*

Synopsis	Threshold for consecutive message send attempts

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Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* drop-count *number*
Tree	drop-count
Range	1 to 60
Default	3
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-clear *number*

Synopsis	Delay time for a cleared event on the router instance
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-clear *number*
Tree	hold-clear
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-set *number*

Synopsis	Hold time before transitioning to cleared state
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* hold-set *number*
Tree	hold-set
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

padding-size *number*

Synopsis	Packet length padding of the ICMP packet
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* padding-size *number*
Tree	padding-size

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Range	0 to 16384
Units	bytes
Default	56
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* priority
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

event-type *keyword*

Synopsis	Effect of priority-level value on base priority value
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* priority event-type *keyword*
Tree	event-type
Options	delta, explicit
Default	delta
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-level *number*

Synopsis	Priority level associated with this event
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* priority priority-level *number*
Tree	priority-level
Range	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

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request-interval *number*

Synopsis	Time interval between consecutive ICMP echo requests
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* request-interval *number*
Tree	request-interval
Range	1 to 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

timeout *number*

Synopsis	Timeout for ICMP echo request messages
Context	**configure** vrrp policy *number* priority-event host-unreachable *(ipv4-address-with-zone | ipv6-address-with-zone)* timeout *number*
Tree	timeout
Range	1 to 60
Units	seconds
Default	1
Introduced	25.3.R2
Platforms	SAR Gen 2

lag-port-down [lag-name] *lag-interface*

Synopsis	Enter the **lag-port-down** list instance
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface*
Tree	lag-port-down
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-name**] *lag-interface*

Synopsis	LAG name

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Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface*
Tree	lag-port-down
String length	1 to 27
String format	'lag-interface' must be lag- followed by number 1-800 or up to 23 chars (e.g. lag-1 or lag-my-lag)
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-clear *number*

Synopsis	Delay time for a cleared event on the router instance
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* hold-clear *number*
Tree	hold-clear
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-set *number*

Synopsis	Hold time before transitioning to cleared state
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* hold-set *number*
Tree	hold-set
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

number-down [number-of-lag-ports-down] *number*

Synopsis	Enter the **number-down** list instance
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* number-down *number*
Tree	number-down

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Introduced	25.3.R2
Platforms	SAR Gen 2

[**number-of-lag-ports-down**] *number*

Synopsis	Threshold of down LAG ports that create a set event
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* number-down *number*
Tree	number-down
Range	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* number-down *number* priority
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

event-type *keyword*

Synopsis	Effect of priority-level value on base priority value
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* number-down *number* priority event-type *keyword*
Tree	event-type
Options	delta, explicit
Default	delta
Introduced	25.3.R2
Platforms	SAR Gen 2

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priority-level *number*

Synopsis	Priority level associated with this event
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* number-down *number* priority priority-level *number*
Tree	priority-level
Range	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

weight-down [lag-ports-down-weight] *number*

Synopsis	Enter the **weight-down** list instance
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* weight-down *number*
Tree	weight-down
Introduced	25.3.R2
Platforms	SAR Gen 2

[**lag-ports-down-weight**] *number*

Synopsis	LAG name for the reduced LAG ports
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* weight-down *number*
Tree	weight-down
Range	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* weight-down *number* priority
Tree	priority

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Introduced	25.3.R2
Platforms	SAR Gen 2

event-type *keyword*

Synopsis	Effect of priority-level value on base priority value
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* weight-down *number* priority event-type *keyword*
Tree	event-type
Options	delta, explicit
Default	delta
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-level *number*

Synopsis	Priority level associated with this event
Context	**configure** vrrp policy *number* priority-event lag-port-down *lag-interface* weight-down *number* priority priority-level *number*
Tree	priority-level
Range	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

mc-ipsec-non-forwarding [tunnel-group-id] *number*

Synopsis	Enter the **mc-ipsec-non-forwarding** list instance
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number*
Tree	mc-ipsec-non-forwarding
Introduced	25.3.R2
Platforms	SAR Gen 2

[**tunnel-group-id**] *number*

Synopsis	IPSEC tunnel group monitored by priority control event
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number*

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Tree	mc-ipsec-non-forwarding
Range	1 to 64
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-clear *number*

Synopsis	Delay time for a cleared event on the router instance
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number* hold-clear *number*
Tree	hold-clear
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-set *number*

Synopsis	Hold time before transitioning to cleared state
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number* hold-set *number*
Tree	hold-set
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number* priority
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

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event-type *keyword*

Synopsis	Event type
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number* priority event-type *keyword*
Tree	event-type
Options	delta, explicit
Default	delta
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-level *number*

Synopsis	Priority level associated with this event
Context	**configure** vrrp policy *number* priority-event mc-ipsec-non-forwarding *number* priority priority-level *number*
Tree	priority-level
Range	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

port-down [port-id] *port-named*

Synopsis	Enter the **port-down** list instance
Context	**configure** vrrp policy *number* priority-event port-down *port-named*
Tree	port-down
Introduced	25.3.R2
Platforms	SAR Gen 2

[**port-id**] *port-named*

Synopsis	Port ID for the reduced LAG ports
Context	**configure** vrrp policy *number* priority-event port-down *port-named*
Tree	port-down
Notes	This element is part of a list key.

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Introduced	25.3.R2
Platforms	SAR Gen 2

hold-clear *number*

Synopsis	Delay time for a cleared event on the router instance
Context	**configure** vrrp policy *number* priority-event port-down *port-named* hold-clear *number*
Tree	hold-clear
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-set *number*

Synopsis	Hold time before transitioning to cleared state
Context	**configure** vrrp policy *number* priority-event port-down *port-named* hold-set *number*
Tree	hold-set
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** vrrp policy *number* priority-event port-down *port-named* priority
Tree	priority
Introduced	25.3.R2
Platforms	SAR Gen 2

event-type *keyword*

Synopsis	Effect of priority-level value on base priority value
Context	**configure** vrrp policy *number* priority-event port-down *port-named* priority event-type *keyword*

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Tree	event-type
Options	delta, explicit
Default	delta
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-level *number*

Synopsis	Priority level associated with this event
Context	**configure** vrrp policy *number* priority-event port-down *port-named* priority priority-level *number*
Tree	priority-level
Range	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

route-unknown [ip-prefix] *(ipv4-prefix | ipv6-prefix)*

Synopsis	Enter the **route-unknown** list instance
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)*
Tree	route-unknown
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-prefix**] *(ipv4-prefix | ipv6-prefix)*

Synopsis	IP prefix of route monitored by priority control event
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)*
Tree	route-unknown
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

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hold-clear *number*

Synopsis	Delay time for a cleared event on the router instance
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* hold-clear *number*
Tree	hold-clear
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

hold-set *number*

Synopsis	Hold time before transitioning to cleared state
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* hold-set *number*
Tree	hold-set
Range	1 to 86400
Units	seconds
Introduced	25.3.R2
Platforms	SAR Gen 2

less-specific

Synopsis	Enable the **less-specific** context
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* less-specific
Tree	less-specific
Introduced	25.3.R2
Platforms	SAR Gen 2

allow-default *boolean*

Synopsis	Match on default route
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* less-specific allow-default *boolean*

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Tree	allow-default
Default	false
Introduced	25.3.R2
Platforms	SAR Gen 2

next-hop [ip-address] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Add a list entry for **next-hop**
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	next-hop
Introduced	25.3.R2
Platforms	SAR Gen 2

[**ip-address**] *(ipv4-address-with-zone | ipv6-address-with-zone)*

Synopsis	Next-hop IP address for a returned route prefix
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* next-hop *(ipv4-address-with-zone | ipv6-address-with-zone)*
Tree	next-hop
Description	This command configures the next-hop IP address used to match the route prefix being monitored by the priority control event with the results of a route table lookup.
String format	'ipv4-address-with-zone' must be a.b.c.d with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id 'ipv6-address-with-zone' must be valid IPv6 with optional %zone-id
Notes	This element is part of a list key.
Introduced	25.3.R2
Platforms	SAR Gen 2

priority

Synopsis	Enter the **priority** context
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* priority
Tree	priority
Introduced	25.3.R2

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Platforms	SAR Gen 2

event-type *keyword*

Synopsis	Effect of priority-level value on base priority value
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* priority event-type *keyword*
Tree	event-type
Options	delta, explicit
Default	delta
Introduced	25.3.R2
Platforms	SAR Gen 2

priority-level *number*

Synopsis	Priority level associated with this event
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* priority priority-level *number*
Tree	priority-level
Range	1 to 254
Introduced	25.3.R2
Platforms	SAR Gen 2

protocol *keyword*

Synopsis	Routing protocol as match criterion
Context	**configure** vrrp policy *number* priority-event route-unknown *(ipv4-prefix | ipv6-prefix)* protocol *keyword*
Tree	protocol
Options	bgp, ospf, isis, rip, static, bgp-vpn
Max. instances	6
Introduced	25.3.R2
Platforms	SAR Gen 2

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5 Deprecated and obsolete commands

This section lists the deprecated and obsolete commands in this major release.

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5.1 Deprecated commands

This chapter provides a list of commands that are marked as “status deprecated” in the Nokia YANG models and the MD-CLI and should no longer be used. Only releases in which commands are initially deprecated are included in this section. If applicable, the equivalent configuration groups command is also deprecated (but not explicitly listed).

See the SR OS Software Release Notes for more information.

(No entries for this section.)

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5.2 Obsolete commands

This chapter provides a list of commands that are marked as “status obsolete” in the Nokia YANG models and the MD-CLI. These commands can no longer be used and are considered invalid. Only releases in which commands are initially obsoleted are included in this section. If applicable, the equivalent configuration groups command is also obsoleted (but not explicitly listed).

See the SR OS Software Release Notes for more information.

5.2.1 26.3.R1

filter commands:

- configure filter ip-filter embed openflow
- configure filter ip-filter embed openflow admin-state
- configure filter ip-filter embed openflow apply-groups
- configure filter ip-filter embed openflow grt
- configure filter ip-filter embed openflow of-switch
- configure filter ip-filter embed openflow offset
- configure filter ip-filter embed openflow sap
- configure filter ip-filter embed openflow system
- configure filter ip-filter embed openflow vpls
- configure filter ip-filter embed openflow vprn
- configure filter ip-filter entry action forward esi-l2
- configure filter ip-filter entry action forward esi-l2 esi-value
- configure filter ip-filter entry action forward esi-l2 vpls
- configure filter ip-filter entry action forward esi-l3
- configure filter ip-filter entry action forward esi-l3 esi-value
- configure filter ip-filter entry action forward esi-l3 sf-ip
- configure filter ip-filter entry action forward esi-l3 vas-interface
- configure filter ip-filter entry action forward esi-l3 vprn
- configure filter ipv6-filter embed openflow
- configure filter ipv6-filter embed openflow admin-state
- configure filter ipv6-filter embed openflow apply-groups
- configure filter ipv6-filter embed openflow grt
- configure filter ipv6-filter embed openflow of-switch
- configure filter ipv6-filter embed openflow offset
- configure filter ipv6-filter embed openflow sap
- configure filter ipv6-filter embed openflow system

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- configure filter ipv6-filter embed openflow vpls
- configure filter ipv6-filter embed openflow vprn
- configure filter ipv6-filter entry action forward esi-l2
- configure filter ipv6-filter entry action forward esi-l2 esi-value
- configure filter ipv6-filter entry action forward esi-l2 vpls
- configure filter ipv6-filter entry action forward esi-l3
- configure filter ipv6-filter entry action forward esi-l3 esi-value
- configure filter ipv6-filter entry action forward esi-l3 sf-ip
- configure filter ipv6-filter entry action forward esi-l3 vas-interface
- configure filter ipv6-filter entry action forward esi-l3 vprn
- configure filter mac-filter entry action forward esi-l2
- configure filter mac-filter entry action forward esi-l2 esi-value
- configure filter mac-filter entry action forward esi-l2 vpls

macsec commands:

- configure macsec connectivity-association static-cak mka-hello-interval
- configure macsec connectivity-association static-cak mka-key-server-priority

router commands:

- configure router interface gre-termination
- configure router nat outside dnat-only
- configure router nat outside dnat-only route-limit

service commands:

- configure service vprn nat outside dnat-only
- configure service vprn nat outside dnat-only route-limit

system commands:

- configure system bluetooth
- configure system bluetooth admin-state
- configure system bluetooth advertising-timeout
- configure system bluetooth apply-groups
- configure system bluetooth device
- configure system bluetooth device apply-groups
- configure system bluetooth device description
- configure system bluetooth device mac-address
- configure system bluetooth module
- configure system bluetooth module apply-groups
- configure system bluetooth module cpm-slot
- configure system bluetooth module provisioned-identifier

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- configure system bluetooth pairing-button
- configure system bluetooth passkey
- configure system bluetooth power-mode
- configure system grpc md-cli
- configure system grpc md-cli admin-state
- configure system management-interface remote-management
- configure system management-interface remote-management admin-state
- configure system management-interface remote-management allow-unsecure-connection
- configure system management-interface remote-management apply-groups
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- configure system management-interface remote-management manager router-instance
- configure system management-interface remote-management manager source-address
- configure system management-interface remote-management manager source-port
- configure system management-interface remote-management router-instance
- configure system management-interface remote-management source-address
- configure system management-interface remote-management source-port
- configure system security aaa local-profiles profile grpc rpc-authorization md-cli-session

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- configure system security aaa user-template access bluetooth
- configure system security user-params local-user user access bluetooth

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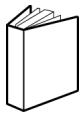

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