

TMS-Related Show Commands

tms

- Syntax** `tms routes [tms-interface interface-name] [family] [active|inactive]`
- Context** `show>router`
- Description** This command displays TMS route information.
- Parameters** `tms-interface interface-name` — Specifies the interface name, up to 32 chars in length.
- `family` — Specifies an address family: **ipv4|ipv6**
- `active` — <<TBD>>
- `inactive` — <<TBD>>

Sample Output

```
*A:Dut-C# show router 1 tms routes
=====
TMS Routes (IPv4)
=====
Status      Network                               Next Hop[Interface Name]
-----
Active      100.0.0.1/32                          mda-2-1
-----
No. of Routes: 1
=====
```

interface

- Syntax** `interface tms-interface-name [detail]`
- Context** `show>router`
- Description** This command displays information about the TMS interface.
- Parameters** `tms-interface-name` — Specifies the interface name, up to 32 chars in length.
- `detail` — Specifies displaying of detailed information.

Sample Output

```
*A:Dut-C# show router 1 interface "mda-2-1" detail
=====
Interface Table (Service: 1)
=====
-----
Interface
```

Application Assurance Command Descriptions

```

-----
If Name          : mda-2-1
Admin State     : Up
Protocols       : None
IP Addr/mask    : 20.12.0.44/32
IGP Inhibit     : Disabled
HoldUp-Time     : 0
Oper (v4/v6)   : Up/Down
Address Type    : Primary
Broadcast Addr  : Host-ones
Track Srrp Inst : 0
-----

```

Details

```

-----
Description     : tms-2-1
If Index        : 3
Last Oper Chg   : 09/14/2011 08:39:24
If Type         : TMS
Rx Pkts         : 13508
Tx Pkts         : 13552
Tx Discard Pkts : 0
Virt. If Index  : 3
Global If Index : 122
Rx Bytes        : 864512
Tx Bytes        : 867328
-----

```

TMS Health Information

```

Status          : Up
Version         : Peakflow TMS 5.6 (build BHDF)
Mitigations     : 1
Status message  : (Unavailable)
-----

```

with

```

Rx Pkts/Rx Bytes: Offramped traffic counters
Tx Pkts/Tx Bytes: Onramped traffic counters
Tx Discard Pkts: Discarded packets by TMS
It displays the #of pkts dropped while the traffic is getting distributed to various
packet engines for mitigation processing.
It doesn't account for the pkts dropped in HW level.
Status: TMS status could be Up/Down
Version: TMS software version
Mitigations: Number of active mitigations on this TMS
Status message: Not applicable. For future usage.
-----

```

protocol

- Syntax** protocol tms
- Context** show>router>route-table
- Description** This command displays general information about the TMS route table.

Sample Output

```

*A:Dut-C# show router route-table protocol tms
=====
Route Table (Router: Base)
=====
Dest Prefix[Flags]                Type   Proto  Age           Pref
Next Hop[Interface Name]          Metric
-----
100.0.0.1/32                      Remote TMS      00h23m07s    167
vprn1:mda-2-1                      0
-----

```

```
No. of Routes: 1
Flags: L = LFA nexthop available      B = BGP backup route available
n = Number of times nexthop is repeated
=====
*A:Dut-C#
```

route-table

- Syntax** **route-table summary**
- Context** show>router
- Description** This command displays the router's route table, including the TMS routes.
- Parameters** **summary** — Displays summary information.

Sample Output

```
*A:Dut-C# show router route-table summary
=====
Route Table Summary (Router: Base)
=====
-----
Active                               Available
-----
Static                               5                               5
Direct                               12                              12
Host                                  0                               11
BGP                                   0                               0
BGP (Backup)                         0                               0
VPN Leak                              0                               0
OSPF                                   0                               0
ISIS                                  6                               6
ISIS (LFA)                            0                               0
RIP                                    0                               0
LDP                                    0                               0
Aggregate                             0                               0
Sub Mgmt                              0                               0
Managed                              0                               0
NAT                                    0                               0
TMS                                    1                               1
-----
Total                                 24                              35
=====
NOTE: ISIS LFA routes and BGP Backup routes are not counted towards the total.
```

port

- Syntax** **port slot/mda/2 (offramp port)**
 port slot/mda/3 (onramp port)
- Context** show
- Description** This command display TMS offramp and onramp port information.

Application Assurance Command Descriptions

Parameters *slot/mda/2* — <<TBD>>
slot/mda/3 — <<TBD>>
offramp port — <<TBD>>
onramp port — <<TBD>>

Sample Output

```
*A:Dut-C# show port 2/1/2
=====
ISA-TMS Port
=====
Description      : TMS
Port             : 2/1/2                Admin State      : up
Last State Change : 09/14/2011 07:03:49 Oper State       : up

Configured Mode  : network                Net. Egr. Queue *: default
=====
* indicates that the corresponding row element may have been truncated.
=====
Port Statistics
=====
                                     Input                Output
-----
Unicast Packets                35365                254
Multicast Packets                0                    0
Broadcast Packets                0                    0
Discards                        0                    0
Unknown Proto Discards          0
=====
Ethernet-like Medium Statistics
=====
Alignment Errors : 0 Sngl Collisions : 0
FCS Errors       : 0 Mult Collisions : 0
SQE Test Errors  : 0 Late Collisions : 0
CSE              : 0 Excess Collisns : 0
Too long Frames  : 0 Int MAC Tx Errs  : 0
Symbol Errors    : 0 Int MAC Rx Errs  : 0
=====
*A:Dut-C#

*A:Dut-C# show port 2/1/3
=====
ISA-TMS Port
=====
Description      : TMS
Port             : 2/1/3                Admin State      : up
Last State Change : 09/14/2011 07:03:49 Oper State       : up

Configured Mode  : network                Net. Egr. Queue *: default
=====
* indicates that the corresponding row element may have been truncated.
=====
Port Statistics
=====
                                     Input                Output
-----
```

```
-----
Unicast Packets                1                35710
Multicast Packets              0                0
Broadcast Packets              0                0
Discards                       0                0
Unknown Proto Discards        0
=====
```

=====
Ethernet-like Medium Statistics
=====

```
Alignment Errors :          0  Sngl Collisions :          0
FCS Errors       :          0  Mult Collisions :          0
SQE Test Errors :          0  Late Collisions :          0
CSE              :          0  Excess Collisns :          0
Too long Frames :          0  Int MAC Tx Errs :          0
Symbol Errors   :          0  Int MAC Rx Errs :          0
=====
```

filter ip

Syntax filter ip

Context show>filter

Description This command displays IP filter information.

Sample Output

```
*A:Dut-C# show filter ip
=====
Configured IP Filters                Total:      0
=====
Filter-Id  Scope      Applied Description
-----
No Matching Entries
=====
System IP Filters                Total:      8
=====
Filter-Id                Description
-----
_tmnx_tms-egr-1/1-F      Egress TMS filter
_tmnx_tms-egr-2/1-F      Egress TMS filter
_tmnx_tms-egr-2/2-F      Egress TMS filter
_tmnx_tms-egr-3/1-F      Egress TMS filter
_tmnx_tms-ing-1/1-F      Ingress TMS filter
_tmnx_tms-ing-2/2-F      Ingress TMS filter
_tmnx_tms-ing-2/1-F      Ingress TMS filter
_tmnx_tms-ing-3/1-F      Ingress TMS filter
-----
Num IP filters: 8
=====
*A:Dut-C#
```

Clear Commands

interface

- Syntax** `interface tms-interface-name [statistics]`
- Context** `clear>router`
- Description** This command clears TMS interface statistics or status.
- Parameters** *interface-name* — Clears the interface name, up to 32 chars in length.
statistics — Clears application assurance system and subscriber statistics.

Debug Commands

tms

Syntax	tms tms-interface <i>tms-interface-name</i> [detail]
Context	debug>router
Description	This command enables or disables and configures debugging for Threat Management System information
Parameters	tms-interface <i>interface-name</i> — Specifies the interface name, up to 32 chars in length. detail — Configures detailed debugging.

