

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** *interface-name* — Specifies the interface name, up to 32 chars in length.
family — Specifies an address family: **ipv4|ipv6**

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** *detail* — Specifies displaying of detailed information.

Sample Output

```
*A:Dut-C# show router 1 interface "mda-2-1" detail
=====
Interface Table (Service: 1)
=====
Interface
-----
If Name           : mda-2-1
Admin State       : Up
Oper (v4/v6)     : Up/Down
Protocols         : None
IP Addr/mask     : 20.12.0.44/32
IGP Inhibit      : Disabled
Address Type      : Primary
Broadcast Address : Host-ones
```

Application Assurance Command Descriptions

```
HoldUp-Time      : 0                      Track Srrp Inst  : 0
```

```
-----  
Details  
-----
```

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

```
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  
=====
```

Dest Prefix[Flags]	Type	Proto	Age	Pref
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 displays TMS offramp and onramp port information.

Sample Output

```
*A:Dut-C# show port 2/1/2
=====
ISA-TMS Port
=====
```

Application Assurance Command Descriptions

```
Description      : TMS
Port             : 2/1/2
Last State Change : 09/14/2011 07:03:49
Admin State      : up
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
Last State Change : 09/14/2011 07:03:49
Admin State      : up
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
```

Application Assurance Command Descriptions

```
Symbol Errors      :                               0  Int MAC Rx Errs :                               0  
=====
```

Clear Commands

interface

Syntax	interface <i>tms-interface-name</i> [statistics]
Context	clear>router
Description	This command clears TMS interface statistics or status.
Parameters	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	detail — Configures detailed debugging.

