



Monitoring Fabric Links Commands

This module describes the Cisco IOS XR software commands related to monitoring fabric links.

For detailed information about monitoring fabric links concepts, configuration tasks, and examples, see the *Traffic Monitoring* chapter in the *System Monitoring Configuration Guide for Cisco 8000 Series Routers*.

- [hw-module fabric-tsmon-port-reset disable, on page 1](#)
- [show controller fabric health, on page 2](#)
- [show controller fabric plane, on page 4](#)

hw-module fabric-tsmon-port-reset disable

To disable the maximum port-reset threshold value of five, use the **hw-module fabric-tsmon-port-reset disable** command in XR EXEC mode.

hw-module fabric-tsmon-port-reset disable

Syntax Description	This command has no keywords or arguments.	
Command Default	By default, keepalive monitoring is enabled on routers.	
Command Modes	XR EXEC mode	
Command History	Release	Modification
	Release 24.2.11	This command was introduced.

Usage Guidelines



Caution We recommend that you troubleshoot and resolve the reason for the fabric port shutdown instead of using the **hw-module fabric-tsmon-port-reset disable** command to prevent the fabric port shutdown.

Use the **hw-module fabric-tsmon-port-reset disable** command to disable the maximum port-reset threshold value of five.

Task ID	Task ID	Operations
	config-services	read, write
	root-lr	read, write

Examples

The following example shows how to disable the maximum port-reset threshold value of five:

```
Router# configuration terminal
Router(config)# hw-module fabric-tsmon-port-reset disable
Router(config)# commit
```

show controller fabric health

To display the general fabric health information, use the **show controller fabric health** command in the XR EXEC mode.

show controller fabric health

Syntax Description	health	Displays the general health information of the fabric, such as fabric system health and collaborator process state .
Command Default	None	
Command Modes	XR EXEC mode	
Command History	Release	Modification
	Release 24.3.1	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	interface	read
	filesystem	read, write
	cisco-support	read

Examples

The **show controller fabric health** command displays general fabric health information, such as **Fabric System Health** and **Collaborator Process State**.

Router# **show controller fabric health**

Fabric System Health

```

-----
Flags: T - Total,      U - Up,          A - Admin Down
      L - LCC,        M - Mcast Down, Y - Yes
      F - FCC,        D - Down,      N - No or Not Ok
      V - Valid,
  
```

Collaborator Process State:

```

-----
FSDB Aggregator: OK
+-----+---+
|Rack id   | 0 |
+-----+---+
|FSDB status|Ok|
+-----+---+
|SFE status |Ok|
+-----+---+
  
```

Router Health:

```

-----
Rack   Planes      SFE Asics      Fia Asics
T/L/F   U/M/D/A      T/U/D          T/U/D
-----
1/1/0   2/0/6/0        6/6/0          2/2/0
  
```

```

-----
Plane Admin Plane  Racks  Data
id    state state   in issue drop/error
-----
0      UP    UP      0      No
1      UP    UP      0      No
2      UP    DN      1      No
3      UP    DN      1      No
4      UP    DN      1      No
5      UP    DN      1      No
6      UP    DN      1      No
7      UP    DN      1      No
-----
  
```

Rack Health:

Rack: 0, Type: LCC

```

-----
SFE Asics  FIA Asics  Planes  Valid
T/U/D      T/U/D      U/M/D   fab ids
-----
6/6/0      2/2/0      2/0/6   2
  
```

PLA Health:

Description:

```

planes      : p0-p7
plane mask   : Asic #0-3
Asic value 1: destination reachable via asic
           .: destination unreachable via asic
           x: asic not connected to LC (for S3)
           -: plane not configured (for S2) or asic missing
=====
  
```

```

Destination  p0    p1    p2    p3    p4    p5    p6    p7    Reach-mask
Address      mask  mask  mask  mask  mask  mask  mask  mask  Oper Up
              links/asic
  
```

Fapid(R/S/A)	0123	0123	0123	0123	0123	0123	0123	0123	links/asic	
									Mn/Mx	Total
									1 Mn/Mx	Total

0 (0/0/0)	111	111	---	---	---	---	---	---	2/4	22
									8/8	48
1 (0/0/1)	111	111	---	---	---	---	---	---	2/4	22
									8/8	48

show controller fabric plane

To display plane state information on fabric plane, use the **show controller fabric plane** command in the XR EXEC mode.

```
show controller fabric plane { plane id | all }
```

Syntax Description	plane-id	Displays the information on selected fabric plane, such as admin state and plane state .
	all	Displays the information on all fabric plane.

Command Default	None
-----------------	------

Command Modes	XR EXEC mode
---------------	--------------

Command History	Release	Modification
	Release 24.3.1	This command was introduced.

Usage Guidelines	No specific guidelines impact the use of this command.
------------------	--

Task ID	Task ID	Operations
	interface	read
	filesystem	read, write
	cisco-support	read

Examples

The **show controller fabric plane all** command displays plane state information on fabric planes, such as **admin state** and **plane state**.

```
Router# show controller fabric plane all
Plane Admin Plane up->dn up->mcast
Id      State State counter counter
-----
0       UP   UP      0         0
1       UP   UP      0         0
2       UP   DN      0         0
```

3	UP	DN	0	0
4	UP	DN	0	0
5	UP	DN	0	0
6	UP	DN	0	0
7	UP	DN	0	0

show controller fabric plane