



Traffic Monitoring Commands

This module describes the Cisco IOS XR Software commands to monitor traffic on the router.

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

- [hw-module profile packet-loss-alert, on page 1](#)
- [show drops all, on page 2](#)

hw-module profile packet-loss-alert

To enable log message alerts for traffic-impacting NPU interrupts, use the **hw-module profile packet-loss-alert** command in the XR Config mode.

hw-module profile packet-loss-alert { **3Min** | **5Min** }

Syntax Description

3Min Specifies a 3 minute duration of packet loss to begin generating log messages. There are atleast 10 error interrupts per minute.

5Min Specifies a 5 minute duration of packet loss to begin generating log messages. There are atleast 10 error interrupts per minute.

Command Default

This feature is disabled by default.

Command Modes

XR Config mode

Command History

Release	Modification
Release 24.1.1	This command was introduced

Usage Guidelines

Only line cards and routers with the Q100, Q200, P100 or G100 based Silicon One ASIC support this feature

Task ID	Task ID	Operation
	profile	read, write

Example

Execute the **hw-module profile packet-loss-alert** command to enable system log alerts for packet loss:

```
Router# configure
Router(config)# hw-module profile packet-loss-alert 3Min
Router(config)# commit
```

show drops all

To display the packet drops, use the **show drops all** command in the XR EXEC mode.

```
show drops all { commands location | location | ongoing location } { node-id | all }
```

Syntax Description	commands	Displays commands executed.
	location	Specifies location of line-card or route processor.
	ongoing	Shows drops occurring since last executed.

Command Default None

Command Modes XR EXEC mode

Command History	Release	Modification
	Release 7.3.5	This command was introduced.

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

Task ID	Task ID	Operations
	interface	read
	cisco-support	read

The **show packet drops all location all** command displays packet drops for all nodes on all locations

```
RP/0/RP0/CPU0:ios#show drops all location all
-----
Printing Drop Counters for node 0/RP0/CPU0
-----
```

```

-----
MODULE arp
-----

-----

MODULE mac
-----

-----

MODULE npu_traps
-----

Trap Type                               NPU Trap Punt      Punt Punt Punt
Configured Hardware  Policer Avg-Pkt Packets  ID  ID  Dest  VoQ  VLAN  TC  Rate(pps)
Rate(pps)  Level  Size  Accepted  ID  ID  Dest  VoQ  VLAN  TC  Rate(pps)
-----
UNKNOWN_VLAN_OR_BUNDLE_MEMBER(D*)      0  4  RPLC_CPU  200  1586  0  67
      134      IFG      64      0              1

-----

MODULE voq_drops
-----

-----

MODULE cef
-----

-----

MODULE fabric
-----

-----

MODULE lpts
-----

-----

MODULE spp
-----

```

The **show packet drops all ongoing location** command displays the packet drops since last executed.

```
RP/0/RP0/CPU0:ios#show drops all ongoing location all
```

```

-----
Printing Drop Counters for node 0/RP0/CPU0
-----

```

```

-----
MODULE arp
-----

```

show drops all

```
-----  
MODULE mac  
-----
```

```
-----  
MODULE npu_traps  
-----
```

```
-----  
MODULE voq_drops  
-----
```

```
-----  
MODULE cef  
-----
```

```
-----  
MODULE fabric  
-----
```

```
-----  
MODULE lpts  
-----
```

```
-----  
MODULE spp  
-----
```