

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
- show controllers npu stats counters-drop, on page 4
- show controllers npu stats traps-all, on page 8
- show controllers npu stats voq, on page 11
- show spp node-counters, on page 14

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 occuring 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

| MODULE arp | | | | | | | | | |
|---|-----------|---------------|---------------|----------|------------------------|------------|-----------|-------|----|
| MODULE mac | | | | | | | | | |
| MODULE npu_traps | | | | | | | | | |
| Trap Type Configured Hardware | | | kets ID ID |) Des | Punt Packets t V | | | | |
| Rate(pps) Level | Size | Accepted | | ropped | | | | | |
| UNKNOWN_VLAN_OR_BUNE 134 IFG | | | 0 | 4 F 1 | RPLC_CPU | 200 | 1586 | 0 | 67 |
| MODULE voq_drops | | | | | | | | | |
| MODULE cef | | | | | | | | | |
| MODULE fabric | | | | | | | | | |
| MODULE lpts | | | | | | | | | |
| MODULE spp | | | | | | | | | |
| The show packet drops RP/0/RP0/CPU0:ios# sh | _ | _ | _ | - | oacket drop | s since la | ast exect | uted. | |
| Printing Drop Counte | rs for no | ode 0/RP0/CPU | | | | | | | |
| MODULE arp | | | | | | | | | |

| MODULE mac | |
|------------------|---|
| MODULE npu_traps | |
| MODULE voq_drops | _ |
| MODULE cef | - |
| MODULE fabric | _ |
| MODULE lpts | - |
| MODULE spp | |

show controllers npu stats counters-drop

To display the packets that have been dropped by the NPU, use the **show controllers npu stats counters-drop** command in the XR EXEC mode.

show controller npu stats counters-drop { description instance { instance-id location { node-id | path | all } | lall location { node-id | path | all } } | instance { instance-id location { node-id | path | all } | lall location { node-id | path | all } | latest instance { instance-id location { node-id | path | all } | lall location { node-id | path | all } } | [output-modifiers { begin line | exclude line | file | include line | utility line }]

| description instance instance-id | Displays the counter description about a given instance. |
|----------------------------------|--|
| description instance all | Displays the counter description about all instances. |
| instance instance-id | Displays NPU information about a given instance. |
| instance all | Displays NPU information about all instances. |

| latest instance instance-id | Displays the most recent non zero ASIC statistics about a given instance. |
|--------------------------------------|---|
| latest instance all | Displays the most recent non zero ASIC statistics about all instances. |
| location node-id | Specifies the node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. Displays the information about a specific node. |
| location all | Displays information about all nodes. |
| output-modifiers begin line | Displays information from the line that matches to the given content. |
| | For example, if you want to display the running configuration starting from the interface configurations, you can enter as begin interface. |
| output-modifiers exclude line | Displays information by filtering out lines that contain the given content. |
| | For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as exclude interface. |
| output-modifiers include line | Displays information that includes the content that you have given. |
| | For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as include interface. |
| output-modifiers utility line | Specifies various Unix command-line tools to manipulate or analyze the command's output. |
| | For example, if you want to sort the output of a command alphabetically, you can enter as utility sort. |

output-modifiers file

Saves the information to a specific file.

For example, if you want to save information to a specific file, you can enter as | **file filename vrf vrfname**.

You can save the content in the following locations:

- *filename* Save the output to a specified filename.
- *append* Add the output to the end of an existing file.
- *config* Save the output to the device's configuration.
- disk0 Store the output on the device's disk0 storage.
- ftp Transfer and save the output to an FTP server.
- harddisk Save the output to the device's internal hard disk.
- http Send the output to an HTTP server.
- https Send the output to an HTTPS server.
- *rootfs* Save the output to the root file system of the device.
- *scp* Securely copy the output to a remote server using SCP.
- *sftp* Securely transfer the output to a remote server using SFTP.
- tftp Transfer the output to a TFTP server.

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 | | | |

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

Examples

The **show controllers npu stats counters-drop** command displays the NPU statistics for all instance and all locations.

Router# show controllers npu stats counters-drop instance all location all

Statistics Rack: 0, Slot: 0(0x0), Asic instance: 0, Total Counters: 675

| | # Counter_name ! ifg | val | |
|--------|---|-------|---|
| 21106 | | | |
| 1 | 0 Fwd drop counter (DSP==1): pkts | 0 | |
| Ī | 1 Fwd drop counter (DSP==1): bytes | 0 | |
| _ | - 2 RX IFGB0 Port0 drop_counter TC0 | 0 | l |
| 0 | 0 3 RX IFGB0 Port0 drop_counter TC1 | 0 | l |
| 0 I | 0 4 RX IFGB0 Port0 drop counter TC2 | 0 1 | ı |
| 0 | 0 5 RX IFGBO PortO drop counter TC3 | . 0 1 | ı |
| 0 | 0 | | ' |
| 0 | 6 RX IFGB0 Port8 drop_counter TC0 0 | 0 | |
| 0 | 7 RX IFGB0 Port8 drop_counter TC1 0 | 0 | I |
| 0 | 8 RX IFGB0 Port8 drop_counter TC2 | 0 | |
| | 9 RX IFGB0 Port8 drop_counter TC3 | 0 | |
| 0 | 0 10 RX IFGB0 Port16 drop_counter TC0 | 0 | |
| 0 | 0 11 RX IFGB0 Port16 drop_counter TC1 | 0 | l |
| 0 | 0 12 RX IFGB0 Port16 drop_counter TC2 | 0 | l |
| 0 | 0 13 RX IFGB0 Port16 drop counter TC3 | 0 1 | ı |
| 0 | 0 14 RX IFGB 10th fabric link full pkt drop counter ifg0 | 1 0 1 | ı |
| 0 | 0 | , | |
| 0 | 15 RX IFGB0 Port0 partial_drop_counter TC0 0 | 0 | |
| 0 | 16 RX IFGB0 Port0 partial_drop_counter TC1 0 | 0 | ı |

The above sample displays only a part of the actual output; the actual output displays more details.

show controllers npu stats traps-all

To display all the trap events statistics within the NPU, use the **show controllers npu stats traps-all** command in the XR EXEC mode.

show controller npu stats traps-all { detail instance { instance-id location { node-id | path | all } | all location { node-id | path | all } } | instance { instance-id location { node-id | path | all } | lall location { node-id | path | all } | latest instance instance-id location { node-id | path | all } | nonzero instance { instance-id location { node-id | path | all } } } [output-modifiers { begin line | exclude line | file | include line | utility line }]

| detail instance instance-id | Displays detailed information about a given instance. |
|-------------------------------|---|
| detail instance all | Displays detailed information about all instances. |
| instance instance-id | Displays NPU information about a given instance. |
| instance all | Displays NPU information about all instances. |
| latest instance instance-id | Displays the most recent hardware statistics about a given instance. |
| nonzero instance instance-id | Displays information about a given instance by excluding traps with both zero packets accepted and zero packets dropped. |
| nonzero instance all | Displays information about all instances by excluding traps with zero packets accepted and zero packets dropped. |
| location node-id | Specifies the node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. Displays the information about a specific node. |
| location all | Displays information about all nodes. |
| output-modifiers begin line | Displays information from the line that matches to the given content. |
| | For example, if you want to display the running configuration starting from the interface configurations, you can enter as begin interface. |
| output-modifiers exclude line | Displays information by filtering out lines that contain the given content. |
| | For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as exclude interface. |

| output-modifiers include line | Displays information that includes the content that |
|-------------------------------|--|
| | you have given. |
| | For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as include interface. |
| output-modifiers utility line | Specifies various Unix command-line tools to manipulate or analyze the command's output. |
| | For example, if you want to sort the output of a command alphabetically, you can enter as utility sort. |
| output-modifiers file | Saves the information to a specific file. |
| | For example, if you want to save information to a specific file, you can enter as file filename vrf vrfname . |
| | You can save the content in the following locations: |
| | • WORD - Save the output to a specified filename. |
| | • <i>append</i> - Add the output to the end of an existing file. |
| | config - Save the output to the device's configuration. |
| | • <i>disk0</i> - Store the output on the device's disk0 storage. |
| | • ftp - Transfer and save the output to an FTP server. |
| | • <i>harddisk</i> - Save the output to the device's internal hard disk. |
| | • http - Send the output to an HTTP server. |
| | • https - Send the output to an HTTPS server. |
| | • <i>rootfs</i> - Save the output to the root file system of the device. |
| | • <i>scp</i> - Securely copy the output to a remote server using SCP. |
| | • <i>sftp</i> - Securely transfer the output to a remote server using SFTP. |
| | • <i>tftp</i> - Transfer the output to a TFTP server. |

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 |
| filesystem | read, write |
| cisco-support | read |

Examples

The **show controllers npu stats traps-all** command displays packets that are locally processed and packets that are dropped by the CPU.

Router# show controllers npu stats traps-all instance all location 0/RP0/CPU0

| Trap Type | NPU | Trap | TrapStats | Policer | Packet | Packet |
|--|-----|------|-----------|---------|----------|---------|
| | ID | ID | ID | A | .ccepted | Dropped |
| RXTrapMimSaMove(CFM_DOWM_MEP_DMM) | 0 | 6 | 0x6 | 32037 | 0 | 0 |
| RxTrapMimSaUnknown(RCY_CFM_DOWN_MEP_DMM) | 0 | 7 | 0x7 | 32037 | 0 | 0 |
| RxTrapAuthSaLookupFail (IPMC default) | 0 | 8 | 0x8 | 32033 | 0 | 0 |
| RxTrapSaMulticast | 0 | 11 | 0xb | 32018 | 0 | 0 |
| RxTrapArpMyIp | 0 | 13 | 0xd | 32001 | 0 | 0 |
| RxTrapArp | 0 | 14 | 0xe | 32001 | 11 | 0 |
| RxTrapDhcpv4Server | 0 | 18 | 0x12 | 32022 | 0 | 0 |
| RxTrapDhcpv4Client | 0 | 19 | 0x13 | 32022 | 0 | 0 |
| RxTrapDhcpv6Server | 0 | 20 | 0x14 | 32022 | 0 | 0 |
| RxTrapDhcpv6Client | 0 | 21 | 0x15 | 32022 | 0 | 0 |
| RxTrapL2Cache_LACP | 0 | 23 | 0x17 | 32003 | 0 | 0 |
| RxTrapL2Cache_LLDP1 | 0 | 24 | 0x18 | 32004 | 0 | 0 |
| RxTrapL2Cache_LLDP2 | 0 | 25 | 0x19 | 32004 | 120554 | 8 0 |
| RxTrapL2Cache_LLDP3 | 0 | 26 | 0x1a | 32004 | 0 | 0 |

The above sample displays only a part of the actual output; the actual output displays more details.

show controllers npu stats voq

To display statistics related to the Virtual Output Queues (VOQs) on the NPU, use the **show controllers npu stats voq** command in the XR EXEC mode.

show controller npu stats voq { **base** voq-base number { instance { instance-id location { node-id | } path | all } | all location { node-id | path | all } } | src-slice slice-id instance { instance-id location { node-id | path | all } | all location { node-id | path | all } } } | ingress interface { vog-Interface-handle-number instance { instance-id location { node-id | path | all } | all location { node-id | path | all } | CEM R/S/I/P/B instance { instance-id location { node-id | path | all } | all **location** { node-id | path | all } } | **EH** R/S/I/P/B **instance** { instance-id **location** { node-id | path | all | | all | location { node-id | path | all } } | | Fi R/S/I/P/B instance { instance-id location { node-id | path | all } | all location { node-id | path | all } } | Fo R/S/I/P/B instance { instance-id location { $node-id \mid path \mid all \} \mid all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | $all \ \$ | a**location** $\{ node-id \mid path \mid all \} \mid all$ **location** $\{ node-id \mid path \mid all \} \} \mid$ **Gi** R/S/I/P/B **instance** $\{ node-id \mid path \mid all \} \} \mid$ instance-id location { node-id | path | all } | all location { node-id | path | all } } | Hu R/S/I/P/Binstance { instance-id location { node-id | path | all } | all location { node-id | path | all } | Mg R/S/I/P/B instance { instance-id location { node-id | path | all } | all location { node-id | path | all } } | PTP R/S/I/P instance { instance-id location { node-id | path | all } | all location { node-id | path | all } } | Te R/S/I/P/B instance { instance-id location { node-id | path | all } | all location { node-id $\mid path \mid all \} \} \mid TF R/S/I/P/B instance \{ instance-id location \{ node-id \mid path \mid all \} \mid all location \} \}$ node-id | path | all } } | **TH** R/S/I/P/B **instance** { instance-id **location** { node-id | path | all } | all **location** $\{ node-id \mid path \mid all \} \} \mid all instance \{ instance-id location \{ node-id \mid path \mid all \} \mid all \} \mid all \}$ **location** $\{node-id \mid path \mid all \}\}\}$ $[output-modifiers \{ begin line \mid exclude line \mid file \mid include line | file | | f$ | utility line }]

| base voq-base number | Specifies the voq-base number. |
|---|--|
| src-slice slice-id instance | Specifies the slice id. |
| ingress interface <voq-interface handle="" number=""></voq-interface> | Specifies voq-Interface handle number. |
| ingress interface CEM | Specifies circuit emulation interface. |
| ingress interface EH | Specifies 800 Gigabit ethernet interface type. |
| ingress interface Fi | Specifies 50 Gigabit ethernet interface type. |
| ingress interface Fo | Specifies 40 Gigabit ethernet interface type. |
| ingress interface FH | Specifies 400 Gigabit ethernet interface type. |
| ingress interface Gi | Specifies Gigabit ethernet interface type. |
| ingress interface Hu | Specifies 100 Gigabit ethernet interface type. |
| ingress interface Mg | Specifies ethernet interface type. |
| ingress interface PTP | Specifies ethernet interface type. |
| ingress interface Te | Specifies 10 Gigabit ethernet interface type. |
| | |

| Specifies 25 Gigabit ethernet interface type. | |
|---|--|
| Specifies 200 Gigabit ethernet interface type. | |
| Specifies all interface type. | |
| Specifies the Rack/Slot/Instance/Port/Breakout of the voq. | |
| Specifies the node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. Displays the information about a specific node. | |
| Displays information about all nodes. | |
| Displays information from the line that matches to the given content. | |
| For example, if you want to display the running configuration starting from the interface configurations, you can enter as begin interface. | |
| Displays information by filtering out lines that contain the given content. | |
| For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as exclude interface. | |
| Displays information that includes the content that you have given. | |
| For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as include interface. | |
| Specifies various Unix command-line tools to manipulate or analyze the command's output. | |
| For example, if you want to sort the output of a command alphabetically, you can enter as I | |
| | |

output-modifiers file

Saves the information to a specific file.

For example, if you want to save information to a specific file, you can enter as | **file filename vrf vrfname**.

You can save the content in the following locations:

- filename Save the output to a specified filename in VRF
- append Add the output to the end of an existing file
- *config* Save the output to the device's configuration.
- disk0 Store the output on the device's disk0 storage.
- ftp Transfer and save the output to an FTP server.
- *harddisk* Save the output to the device's internal hard disk.
- http Send the output to an HTTP server.
- https Send the output to an HTTPS server.
- *rootfs* Save the output to the root file system of the device.
- *scp* Securely copy the output to a remote server using SCP.
- *sftp* Securely transfer the output to a remote server using SFTP.
- tftp Transfer the output to a TFTP server.

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 |

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

Examples

The **show controllers npu stats voq** command displays packets that are processed on the NPU and dropped in the interface VoQs.

Router# show controllers npu stats voq ingress interface hundredGigE 0/0/0/16 instance all location 0/RP0/CPU0

```
Interface Name = Hu0/0/0/16
                          f0001b0
Interface Handle =
Location = 0/RP0/CPU0
Asic Instance
                                   Ω
VOQ Base =
                              10288
Port Speed(kbps) = 100000000
Local Port = local
VOQ Mode = 8
VOQ Mode
                                   8
Shared Counter Mode =
                                   2
      ReceivedPkts ReceivedBytes DroppedPkts DroppedBytes
______
TC_{0,1} = 114023724 39908275541 113945980 39881093000
TC_{2,3} = 194969733 68239406550 196612981 68814543350
TC_{4,5} = 139949276 69388697075 139811376 67907466750
TC_{6,7} = 194988538 68242491778 196612926 68814524100
```

show spp node-counters

To display the node counters for the Software Packet Path (SPP), use the **show spp node-counters** command in the XR EXEC mode.

show spp node-counters { location { node-id | path | all } | [output-modifiers] } [output-modifiers { begin line | exclude line | file | include line | utility line }]

| location node-id | Specifies the node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. Displays the information about a specific node. |
|-----------------------------|---|
| location all | Displays information about all nodes. |
| output-modifiers begin line | Displays information from the line that matches to the given content. |
| | For example, if you want to display the running configuration starting from the interface configurations, you can enter as begin interface. |

| output-modifiers exclude line | Displays information by filtering out lines that contain the given content. |
|-------------------------------|--|
| | For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as exclude interface. |
| output-modifiers include line | Displays information that includes the content that you have given. |
| | For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as include interface. |
| output-modifiers utility line | Specifies various Unix command-line tools to manipulate or analyze the command's output. |
| | For example, if you want to sort the output of a command alphabetically, you can enter as utility sort. |

output-modifiers file

Saves the information to a specific file.

For example, if you want to save information to a specific file, you can enter as | **file filename vrf vrfname**.

You can save the content in the following locations:

- filename Save the output to a specified filename in VRF
- append Add the output to the end of an existing file
- *config* Save the output to the device's configuration.
- disk0 Store the output on the device's disk0 storage.
- ftp Transfer and save the output to an FTP server.
- *harddisk* Save the output to the device's internal hard disk.
- http Send the output to an HTTP server.
- https Send the output to an HTTPS server.
- *rootfs* Save the output to the root file system of the device.
- *scp* Securely copy the output to a remote server using SCP.
- *sftp* Securely transfer the output to a remote server using SFTP.
- tftp Transfer the output to a TFTP server.

Command Default

None

Command Modes

XR EXEC mode

Command History

| Release | Modification |
|---------------|------------------------------|
| Release 6.0.1 | This command was introduced. |

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID Operations

transport read

Task ID Operations

optical read

Examples

The **show spp node-counters** command displays the node counters for the SPP on a particular node or location.

| Router# show spp node-counters location fretta/classify | 0/0/CPU0 |
|---|----------|
| forwarded to spp clients: | 10006 |
| forwarded NPU packet to NetIO: | 10006 |
| dropped in classify node: | 22 |
| Fwded to CoPP sampler: | 2 |
| PUNT ARP: | 2 |
| PUNT IFIB: | 10006 |
| <pre>IFIB IPv4_STACK:</pre> | 10000 |
| IFIB RAWIP6_FM: | 6 |
| client/inject | |
| pkts injected into spp: | 10002 |
| NetIO->NPU injected into spp: | 10002 |
| NetIO->NPU PROTO ARP: | 2 |
| NetIO->NPU PROTO IPV4: | 10000 |
| socket/rx | |
| ether raw pkts: | 10030 |
| socket/tx | |
| ce pkts: | 10002 |
| | |
| client/punt | |
| punted to client: | 10008 |
| | |

The above sample displays only a part of the actual output; the actual output displays more details.

show spp node-counters