Monitor Commands

monitor session source

To create a SPAN or RSPAN source session, use the **monitor session source** command in switch configuration mode. To remove a source session, use the **no** form of this command.

monitor session *session_number* **source** {**interfaces gigabitEthernet** *interface-id* [**both**| **rx** | **tx**] | [**remote**] **vlan** *vlan-id*}
no monitor session *session_number* **source** {**interfaces gigabitEthernet** *interface-id* | [**remote**] **vlan** *vlan-id*}

Syntax Description

session_number	Specifies the session number identified with the SPAN or RSPAN session. Valid range is from 1 to 7.
interfaces gigabitEthernet *interface-id*	Specifies the Gigabit Ethernet port for a SPAN session.
both, **rx**, **tx**	Specifies the traffic direction to monitor. If you do not specify a traffic direction, the source interface sends both transmitted and received traffic.
remote	Specifies remote VLAN for an RSPAN session.
vlan *vlan-id*	Specifies the VLAN for a SPAN or an RSPAN session. Only value of 1 is allowed for the *session_number* parameter.

Command Default No SPAN sessions are configured.

Command Modes Switch configuration (config-switch)

Command History

Release	Modification
3.6.1	This command was introduced.

Usage Guidelines To create a SPAN source session to monitor the traffic that enters or leaves a source port, use the **monitor session** *session_number* **source interfaces gigabitEthernet** *interface-id* [**both** | **rx** | **tx**] command . To create a SPAN source session to monitor the traffic that is bridged into a source VLAN, use the **monitor session** *session_number* **source vlan** *vlan-id* command.

A session can have up to eight source ports and one destination port with the same session number. A source port cannot be a destination port. Each **monitor session** *session_number* **source** command defines only one Gigabit Ethernet port or VLAN. If a packet is mirrored by a port-based ingress mirroring mechanism along with any other ingress mirroring mechanism, the session with the higher session number is selected.

A session cannot have both SPAN and RSPAN source ports. All source ports in a session must be of same type, that is, either SPAN or RSPAN.

Use the **no monitor session** *session_number* **source** {**interfaces gigabitEthernet** *interface-id* | **vlan** *vlan-id*} command to remove one source port of a source session. Use the **no monitor session** *session_number* **source** command to remove all sources ports of a source session. To change a source port, you must first remove it and then create it again as shown in Example 2.

Example 1

The following example configures a SPAN session consisting of three source ports and one destination port. The first source session copies traffic for both directions from the source port 1/1, the second source session copies the bridged traffic from VLAN 100, and the third source session copies the traffic received on the source port 1/2. The port 1/3 is configured as the destination port.

```
nfvis(config-switch)# monitor session 1 source interfaces gigabitEthernet 1/1 both
nfvis(config-switch)# monitor session 1 source vlan 100
nfvis(config-switch)# monitor session 1 source interfaces gigabitEthernet 1/2 rx
nfvis(config-switch)# monitor session 1 destination interfaces gigabitEthernet 1/3
```

Example 2

The following example shows how to change a source session.

```
nfvis(config-switch)# monitor session 1 source interfaces gigabitEthernet 1/3 tx
nfvis(config-switch)# commit
nfvis(config-switch)# no monitor session 1 source interfaces gigabitEthernet 1/3 tx
nfvis(config-switch)# commit
nfvis(config-switch)# monitor session 1 source interfaces gigabitEthernet 1/3 rx
nfvis(config-switch)# commit
```

monitor session destination

To create a SPAN or RSPAN destination session, use the **monitor session destination** command in switch configuration mode. To remove a destination session, use the **no** form of this command.

monitor session *session_number* **destination** {**interfaces gigabitEthernet** *interface-id* [**network**] | **remote vlan** *vlan-id* **reflector-port gigabitEthernet** *interface-id* **network**}
no monitor session *session_number* **destination**

Syntax Description

session_number	Specifies the session number identified with the SPAN or flow mirror session. Valid range is from 1 to 7.
interfaces gigabitEthernet *interface-id*	Specifies the Gigabit Ethernet port for the SPAN or flow mirror session.
network	Specifies that the destination port acts also as a network port.
remote vlan *vlan-id*	Specifies the remote VLAN for an RSPAN session.
reflector-port gigabitEthernet *interface-id*	Specifies the reflector Gigabit Ethernet port that will flood the RSPAN traffic onto the RSPAN VLAN.

Command Default   No SPAN sessions are configured.

Command Modes   Switch configuration (config-switch)

Command History

Release	Modification
3.6.1	This command was introduced.

Usage Guidelines   Use the **monitor session** *session_number* **destination interfaces gigabitEthernet** *interface-id* command to create a SPAN session to copy traffic to a destination port.

If the **network** keyword is not defined, only mirrored traffic is sent on a destination port. All input traffic is discarded and a value of DOWN is advertised as its operational status to all applications running on it. 802.1x cannot be enabled on a destination port configured without the **network** keyword.

A destination port cannot be a source port. A port cannot be configured as the destination port with the **network** keyword if it belongs to the source VLAN. Mirrored traffic is sent to queue number 1 of the destination port.

Example

The following example configures a SPAN session consisting of three source ports and one destination port. The first source session copies traffic for both directions from the source port 1/1, the second source session copies the bridged traffic from VLAN 100, and the third source session copies the traffic received on the source port 1/2. The port 1/3 is configured as the destination port.

```
nfvis(config-switch)# monitor session 1 source interfaces gigabitEthernet 1/1 both
nfvis(config-switch)# monitor session 1 source vlan 100
```

```
nfvis(config-switch)# monitor session 1 source interfaces gigabitEthernet 1/2 rx
nfvis(config-switch)# monitor session 1 destination interfaces gigabitEthernet 1/3
```