

Configuring Traffic Mirroring

This module describes the configuration of the traffic mirroring feature. Traffic mirroring is sometimes called port mirroring, or switched port analyzer (SPAN).

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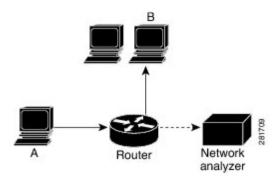
Introduction to Traffic Mirroring

Traffic mirroring, sometimes called port mirroring or Switched Port Analyzer (SPAN), is a Cisco proprietary feature that enables you to monitor network traffic passing in or out of a set of ports. You can then pass this traffic to a destination port on the same router.

Traffic mirroring copies traffic from one or more source ports and sends the copied traffic to one or more destinations for analysis by a network analyzer or other monitoring device. Traffic mirroring does not affect the flow of traffic on the source interfaces or sub-interfaces. It allows the mirrored traffic to be sent to a destination interface or sub-interface.

For example, you can attach a traffic analyzer to the router and capture Ethernet traffic that is sent by host A to host B.

Figure 1: Traffic Mirroring Operation



When local traffic mirroring is enabled, the traffic analyzer gets directly attached to the port that is configured to receive a copy of every packet that host A sends. This port is called a traffic mirroring port.



Note

- From Release 7.2.1, traffic mirroring is introduced on Cisco NCS 5700 line cards.
- From Release 7.4.2, you can mirror incoming (Rx) and outgoing (Tx) traffic from the source ports to separate destinations on Cisco NC57 line cards. During a session, you can configure one destination port for incoming traffic and one for outgoing traffic.

Traffic Mirroring Types

The following types of traffic mirroring are supported:

- Local traffic mirroring: This is the most basic form of traffic mirroring. The network analyzer or sniffer is attached directly to the destination interface. In other words, all monitored ports are located on the same router as the destination port.
- **Remote traffic mirroring**: The network analyzer is reached through a GRE tunnel over an IP network.



Note

A copy of every packet includes the Layer 2 header if the ethernet keyword is configured. As this renders the mirrored packets unroutable, the end point of the GRE tunnel must be the network analyzer.

• ACL-based traffic mirroring: Traffic is mirrored based on the configuration of the interface ACL.

You can mirror traffic based on the definition of an interface access control list. When you are mirroring Layer 3 traffic, the ACL is configured using the **ipv4 access-list** or the **ipv6 access-list** command with the **capture** option. The **permit** and **deny** commands determine the behavior of regular traffic. The **capture** option designates the packet is to be mirrored to the destination port, and it is supported only on permit type of access control entries (ACEs).



Note

Prior to Release 6.5.1, ACL-based traffic mirroring required the use of UDK (User-Defined TCAM Key) with the **enable-capture** option so that the **capture** option can be configured in the ACL.

- Encapsulated remote SPAN (ERSPAN): ERSPAN enables generic routing encapsulation (GRE) for all captured traffic and allows it to be extended across Layer 3 domains.
- **SPAN over Pseudo-Wire**: Pseudo-wire traffic mirroring (known as PW-SPAN) is an extra functionality on the existing SPAN solutions. In PW-SPAN, the traffic mirroring destination port is configured as pseudo-wire rather than a physical port. Here, the designated traffic on the source port is mirrored over the pseudo-wire to a central location.
- **SPAN** to **File**: SPAN to File is an extension of the pre-existing SPAN feature that allows network packets to be mirrored to a file instead of an interface. This helps in the analysis of the packets at a later stage.
- File Mirroring: File mirroring feature enables the router to copy files or directories automatically from /harddisk:/mirror location in active RP to /harddisk:/mirror location in standby RP or RSP without user intervention or EEM scripts.

ERSPAN

Encapsulated Remote Switched Port Analyzer (ERSPAN) transports mirrored traffic over an IP network. The traffic is encapsulated at the source router and is transferred across the network. The packet is decapsulated at the destination router and then sent to the destination interface.

ERSPAN involves mirroring traffic through a GRE tunnel to a remote site. For more information on configuring the GRE tunnel that is used as the destination for the monitor sessions, see the chapter *Configuring GRE Tunnels*.

Restrictions

Generic Restrictions

The following are the generic restriction(s) related to traffic mirroring:

- Partial mirroring and sampled mirroring are not supported.
- Sub-interface configured as source interface is not supported on SPAN.
- The destination bundle interfaces flap when:
 - both the mirror source and destination are bundle interfaces in LACP mode and
 - mirror packets next-hop is a router or a switch instead of a traffic analyzer.

This behavior is observed due to a mismatch of LACP packets on the next-hop bundle interface due to the mirroring of LACP packets on the source bundle interface.

• Both SPAN and ERSPAN features cannot be configured on a router simultaneously. Either SPAN or ERSPAN feature can be configured on the same router.

SPAN Restrictions

The following restrictions apply to SPAN:

• SPAN only supports port-level source interfaces.

ERSPAN Restrictions

The following restrictions apply to ERSPAN:

- The value of ERSPAN session-ID is always zero. IOS XR Command for configuring ERPAN is not available.
- ERSPAN next-hop must have ARP resolved. Any other traffic or protocol will trigger ARP.
- ERSPAN cannot travel over MPLS.
 - Additional routers may encapsulate in MPLS.
- · ERSPAN decapsulation is not supported.
- ERSPAN does not work if the GRE next hop is reachable over sub-interface. For ERSPAN to work, the next hop must be reachable over the main interface.

SPAN-ACL Restrictions

The following restrictions apply to SPAN-ACL:

- SPAN-ACL is only supported in the Rx direction, that is, in the ingress direction v4 or v6 ACL.
- MPLS traffic cannot be captured with SPAN-ACL.
 - ACL for any MPLS traffic is not supported.

Configure Traffic Mirroring

These tasks describe how to configure traffic mirroring:

Configure Remote Traffic Mirroring

Procedure

Step 1 configure

Example:

RP/0/RP0/CPU0:router# configure

Enters global configuration mode.

Step 2 monitor-session session-name

Example:

```
RP/0/RP0/CPU0:router(config) # monitor-session mon1 ethernet
RP/0/RP0/CPU0:router(config-mon) #
```

Defines a monitor session and enters monitor session configuration mode.

Step 3 destination interface *tunnel-ip*

Example:

```
RP/0/RP0/CPU0:router(config-mon) # destination interface tunnelip3
```

Specifies the destination subinterface to which traffic is replicated.

Step 4 exit

Example:

```
RP/0/RP0/CPU0:router(config-mon)# exit
RP/0/RP0/CPU0:router(config)#
```

Exits monitor session configuration mode and returns to global configuration mode.

Step 5 interface *type number*

Example:

```
RP/0/RP0/CPU0:router(config)# interface HundredGigE 0/0/1/0
```

Enters interface configuration mode for the specified source interface. The interface number is entered in *rack/slot/module/port* notation. For more information about the syntax for the router, use the question mark (?) online help function.

Step 6 monitor-session session-name ethernet direction rx-onlyport-only

Example:

```
RP/0/RP0/CPU0:router(config-if) # monitor-session mon1 ethernet
direction rx-only port-only
```

Specifies the monitor session to be used on this interface. Use the **direction** keyword to specify that only ingress or egress traffic is mirrored.

Step 7 end or commit

Example:

```
RP/0/RP0/CPU0:router(config-if) # end

or

RP/0/RP0/CPU0:router(config-if) # commit
```

Saves configuration changes.

• When you issue the **end** command, the system prompts you to commit changes:

```
Uncommitted changes found, commit them before exiting (yes/no/cancel)? [cancel]:
```

- Entering **yes** saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
- Entering **no** exits the configuration session and returns the router to EXEC mode without committing the configuration changes.
- Entering **cancel** leaves the router in the current configuration session without exiting or committing the configuration changes.
- Use the **commit** command to save the configuration changes to the running configuration file and remain within the configuration session.

Use the **commit** command to save the configuration changes to the running configuration file and remain within the configuration session.

Step 8 show monitor-session [session-name] status [detail] [error]

Example:

```
RP/0/RP0/CPU0:router# show monitor-session
```

Displays information about the traffic mirroring session.

Example

This example shows the basic configuration for traffic mirroring with physical interfaces.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# monitor-session ms1
RP/0/RP0/CPU0:router(config-mon)# destination interface HundredGigE0/2/0/15
RP/0/RP0/CPU0:router(config-mon)# commit

RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface TenGigE0/2/0/19
RP/0/RP0/CPU0:router(config-if)# monitor-session ms1 ethernet direction rx-only port-level
RP/0/RP0/CPU0:router(config-if)# commit
```

This example shows sample output of the show monitor-session command with the status keyword:

```
RP/0/RSP0/CPU0:router# show monitor-session status
Monitor-session cisco-rtp1
Destination interface HundredGigE 0/5/0/38
Source Interface Dir Status
TenGigE0/5/0/4 Both Operational
TenGigE0/5/0/17 Both Operational
RP/0/RSP0/CPU0:router# show monitor-session status detail
Monitor-session sess1
Destination interface is not configured
Source Interfaces
______
TenGigE0/1/0/0
Direction: Both
ACL match: Disabled
Portion: Full packet
Status: Not operational (destination interface not known).
TenGiqE0/1/0/1
Direction: Both
```

```
ACL match: Disabled
Portion: First 100 bytes
RP/0/RSP0/CPU0:router# show monitor-session status error
Monitor-session ms1
Destination interface TenGigE0/2/0/15 is not configured
Source Interface Dir Status
Monitor-session ms2
Destination interface is not configured
Source Interface Dir Status
RP/0/RP0/CPU0:router# show monitor-session test status
Monitor-session test (ipv4)
Destination Nexthop 255.254.254.4
Source Interface Dir Status
Gi0/0/0/2.2 Rx Not operational (source same as destination)
Gi0/0/0/2.3 Rx Not operational (Destination not active)
Gi0/0/0/2.4 Rx Operational
GiO/O/O/4 Rx Error: see detailed output for explanation
RP/0/RP0/CPU0:router# show monitor-session test status error
Monitor-session test
Destination Nexthop ipv4 address 255.254.254.4
Source Interface Status
Gi0/0/0/4 < Error: FULL Error Details >
```

Attaching the Configurable Source Interface

Procedure

Step 1 configure

Example:

RP/0/RP0/CPU0:router# configure

Enters global configuration mode.

Step 2 interface *type number*

Example:

RP/0/RP0/CPU0:router(config) # interface HundredGigE 0/0/1/0

Enters interface configuration mode for the specified source interface. The interface number is entered in *rack/slot/module/port* notation. For more information about the syntax for the router, use the question mark (?) online help function.

Step 3 ipv4 access-group acl-name {ingress | egress}

Example:

RP/0/RP0/CPU0:router(config-if)# ipv4 access-group acl1 ingress

Controls access to an interface.

Step 4 monitor-session session-name ethernet direction rx-onlyport-level acl

Example:

```
RP/0/RP0/CPU0:router(config-if) # monitor-session mon1 ethernet direction rx-only port-level
acl
RP/0/RP0/CPU0:router(config-if-mon) #
```

Attaches a monitor session to the source interface and enters monitor session configuration mode.

Note rx-only specifies that only ingress traffic is replicated.

Step 5 acl

Example:

```
RP/0/RP0/CPU0:router(config-if-mon) # acl
```

Specifies that the traffic mirrored is according to the defined ACL.

Note If an ACL is configured by name, then this step overrides any ACL that may be configured on the interface.

Step 6 exit

Example:

```
RP/0/RP0/CPU0:router(config-if-mon)# exit
RP/0/RP0/CPU0:router(config-if)#
```

Exits monitor session configuration mode and returns to interface configuration mode.

Step 7 end or commit

Example:

```
RP/0/RP0/CPU0:router(config-if) # end
or
RP/0/RP0/CPU0:router(config-if) # commit
```

Saves configuration changes.

• When you issue the **end** command, the system prompts you to commit changes:

```
Uncommitted changes found, commit them before exiting (yes/no/cancel)? [cancel]:
```

- Entering **yes** saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.
- Entering **no** exits the configuration session and returns the router to EXEC mode without committing the configuration changes.

- Entering **cancel** leaves the router in the current configuration session without exiting or committing the configuration changes.
- Use the **commit** command to save the configuration changes to the running configuration file and remain within the configuration session.

Step 8 show monitor-session [session-name] status [detail] [error]

Example:

RP/0/RP0/CPU0:router# show monitor-session status

Displays information about the monitor session.

Configuring UDF-Based ACL for Traffic Mirroring

Procedure

	Command or Action	Purpose
Step 1	configure	Enters global configuration mode.
	Example:	
	RP/0/RP0/CPU0:router# configure	
Step 2	udf udf-name header {inner outer} {12 13 14} offset offset-in-bytes length length-in-bytes Example:	Configures individual UDF definitions. You can specify the name of the UDF, the networking header from which offset, and the length of data to be extracted.
	<pre>RP/0/RP0/CPU0:router(config) # udf udf3 header outer 14 offset 0 length 1 (config-mon) # Example:</pre>	The inner or outer keywords indicate the star of the offset from the unencapsulated Layer 3 or Layer 4 headers, or if there is an encapsulate packet, they indicate the start of offset from th inner L3/L4.
	RP/0/RP0/CPU0:router(config)# udf udf3 header inner 14 offset 10 length 2 (config-mon)#	Note The maximum offset allowed, from the start of any header, is 63 bytes
	<pre>Example: RP/0/RP0/CPU0:router(config) # udf udf3 header outer 14 offset 50 length 1 (config-mon) #</pre>	The length keyword specifies, in bytes, the length from the offset. The range is from 1 to 4.
Step 3	ipv4 access-list acl-name Example:	Creates ACL and enters IP ACL configuration mode. The length of the <i>acl-name</i> argument can be up to 64 characters.
	<pre>RP/0/RP0/CPU0:router(config))# ipv4 access-list acl1</pre>	

	Command or Action	Purpose	
Step 4	permit regular-ace-match-criteria udf udf-name1 value1 udf-name8 value8	Configures ACL with UDF match.	
	Example:		
	RP/0/RP0/CPU0:router(config-ipv4-acl)# 10 permit ipv4 any any udf udf1 0x1234 0xffff udf3 0x56 0xff capture RP/0/RP0/CPU0:router(config-ipv4-acl)# 30 permit ipv4 any any dscp af11 udf udf5 0x22 0x22 capture		
Step 5	exit	Exits IP ACL configuration mode and returns	
	Example:	to global configuration mode.	
	RP/0/RP0/CPU0:router(config-ipv4-acl)# exit		
Step 6	interfacetype number	Configures interface and enters interface configuration mode.	
	Example:		
	RP/0/RP0/CPU0:router(config)# interface HundredGigE 0/0/1/0		
Step 7	ipv4 access-group acl-name ingress	Applies access list to an interface.	
	Example:		
	<pre>RP/0/RP0/CPU0:router(config-if)# ipv4 access-group acl1 ingress</pre>		
Step 8	commit	Applies access list to an interface.	
	Example:		
	RP/0/RP0/CPU0:router(config-if)# commit		

Additional Information on Traffic Mirroring

Traffic Mirroring Terminology

- Ingress Traffic Traffic that comes into the router.
- Egress Traffic Traffic that goes out of the router.
- Source (SPAN) interface An interface that is monitored using the SPAN feature.
- Source port—A port that is monitored with the use of traffic mirroring. It is also called a monitored port.
- Destination port—A port that monitors source ports, usually where a network analyzer is connected. It is also called a monitoring port.

• Monitor session—A designation for a collection of SPAN configurations consisting of a single destination and, potentially, one or many source interfaces.

Characteristics of Source Port

A source port, also called a monitored port, is a routed port that you monitor for network traffic analysis. In a single traffic mirroring session, you can monitor source port traffic. The router support a maximum of up to 800 source ports.

A source port has these characteristics:

• It can be any data port type, such as Bundle Interface, 100 Gigabit Ethernet, or 10 Gigabit Ethernet.



Note

- Bridge group virtual interfaces (BVIs) are not supported.
- Bundle members cannot be used as source ports.
- Each source port can be monitored in only one traffic mirroring session.
- When a port is used as a source port, the same port cannot be used as a destination port.
- Each source port can be configured with a direction (ingress, egress, or both) to monitor local traffic mirroring. Remote traffic mirroring is supported both in the ingress and egress directions. For bundles, the monitored direction applies to all physical ports in the group.

Characteristics of Monitor Session

A monitor session is a collection of traffic mirroring configurations consisting of a single destination and, potentially, many source interfaces. For any given monitor session, the traffic from the source interfaces (called *source ports*) is sent to the monitoring port or destination port. If there are more than one source port in a monitoring session, the traffic from the several mirrored traffic streams is combined at the destination port. The result is that the traffic that comes out of the destination port is a combination of the traffic from one or more source ports.

Monitor sessions have these characteristics:

- A single router can have a maximum of four monitor sessions. However, both SPAN and CFM share common mirror profiles. If you configure SPAN and CFM together on the router, the maximum number of monitor sessions may reduce to two.
- A single monitor session can have only one destination port.
- A single destination port can belong to only one monitor session.
- A monitor session can have a maximum of 800 source ports, as long as the maximum number of source ports from all monitoring sessions does not exceed 800.

Characteristics of Destination Port

Each session must have a destination port that receives a copy of the traffic from the source ports.

A destination port has these characteristics:

- A destination port must reside on the same router as the source port for local traffic mirroring. For remote mirroring, the destination is always a GRE tunnel.
- A destination port for local mirroring can be any Ethernet physical port, EFP, GRE tunnel interface, or bundle interface. It can be a Layer 2 or Layer 3 transport interface.



Note

Bundle members cannot be used as destination ports.

- A destination port on router cannot be a VLAN subinterface.
- At any one time, a destination port can participate in only one traffic mirroring session. A destination
 port in one traffic mirroring session cannot be a destination port for a second traffic mirroring session.
 In other words, no two monitor sessions can have the same destination port.
- A destination port cannot also be a source port.

Traffic Mirroring Configuration Examples

This section contains examples of how to configure traffic mirroring:

Traffic Mirroring with Physical Interfaces (Local): Example

This example shows the basic configuration for traffic mirroring with physical interfaces.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# monitor-session ms1
RP/0/RP0/CPU0:router(config-mon)# destination interface HundredGigE0/0/1/0
RP/0/RP0/CPU0:router(config-mon)# commit

RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface TenGigE0/0/0/0
RP/0/RP0/CPU0:router(config-if)# monitor-session ms1 ethernet direction rx-only port-level
RP/0/RP0/CPU0:router(config-if)# commit
```

Viewing Monitor Session Status: Example

This example shows sample output of the **show monitor-session** command with the **status** keyword:

```
Monitor-session sess1
Destination interface is not configured
Source Interfaces
TenGigE0/0/0/0
 Direction: Both
 ACL match: Disabled
 Portion: Full packet
 Status: Not operational (destination interface not known).
TenGiqE0/0/0/1
 Direction: Both
 ACL match: Disabled
 Portion: First 100 bytes
RP/0/RP0/CPU0:router# show monitor-session status error
Monitor-session ms1
Destination interface TenGigEO/0/0/15 is not configured
______
Source Interface Dir Status
Monitor-session ms2
Destination interface is not configured
______
Source Interface Dir Status
RP/0/RP0/CPU0:router# show monitor-session test status
Monitor-session test (ipv4)
Destination Nexthop 255.254.254.4
Source Interface Dir
                        Status
Gi0/0/0/2.2 Rx Not operational (source same as destination)
GiO/O/O/2.3 Rx Not operational (Destination not active)
Gi0/0/0/2.4
            Rx Operational
Rx Error: see detailed output for explanation
Gi0/0/0/4
RP/0/RP0/CPU0:router# show monitor-session test status error
Monitor-session test
Destination Nexthop ipv4 address 255.254.254.4
_____
Source Interface
                Status
Gi0/0/0/4 < Error: FULL Error Details >
```

Troubleshooting Traffic Mirroring

When you encounter any issue with traffic mirroring, begin troubleshooting by checking the output of the **show monitor-session status** command. This command displays the recorded state of all sessions and source interfaces:

```
# show monitor-session status
Monitor-session 5
rx destination interface tunnel-ip5
```

In the preceding example, the line marked as <session status> can indicate one of these configuration errors:

Session Status	Explanation
Session is not configured globally	The session does not exist in global configuration. Review the sho command output and ensure that a session with a correct name has configured.
Destination interface <intf> (<down-state>)</down-state></intf>	The destination interface is not in Up state in the Interface Manage can verify the state using the show interfaces command. Check th configuration to determine what might be keeping the interface from up (for example, a sub-interface needs to have an appropriate encaps configured).

The <Source interface status> can report these messages:

Source Interface Status	Explanation
Operational	Everything appears to be working correctly in traffic mirroring PI. follow up with the platform teams in the first instance, if mirroring operating as expected.
Not operational (Session is not configured globally)	The session does not exist in global configuration. Check the show command output to ensure that a session with the right name has b configured.
Not operational (destination not known)	The session exists, but it either does not have a destination interface s or the destination interface named for the session does not exist. For a if the destination is a sub-interface that has not been created.
Not operational (source same as destination)	The session exists, but the destination and source are the same inte traffic mirroring does not work.
Not operational (destination not active)	The destination interface or pseudowire is not in the Up state. See corresponding <i>Session status</i> error messages for suggested resolution
Not operational (source state <down-state>)</down-state>	The source interface is not in the Up state. You can verify the state the show interfaces command. Check the configuration to see who be keeping the interface from coming up (for example, a sub-interface to have an appropriate encapsulation configured).
Error: see detailed output for explanation	Traffic mirroring has encountered an error. Run the show monitor status detail command to display more information.

The **show monitor-session status detail** command displays full details of the configuration parameters and any errors encountered. For example:

RP/0/RP0/CPU0:router show monitor-session status detail

```
Monitor-session sess1
Destination interface is not configured
Source Interfaces
 TenGigE0/0/0/1
 Direction: Both
 ACL match: Disabled
 Portion: Full packet
 Status: Not operational (destination interface not known)
TenGigE0/0/0/2
 Direction: Both
 ACL match: Disabled
 Portion: First 100 bytes
 Status: Not operational (destination interface not known). Error: 'Viking SPAN PD' detected
the 'warning' condition 'PRM connection
         creation failure'.
Monitor-session foo
 Destination next-hop TenGigE 0/0/0/0
 Source Interfaces
 -----
 TenGigE 0/0/0/1.100:
 Direction: Both
 Status: Operating
TenGigE 0/0/0/2.200:
 Direction: Tx
 Status: Error: <blah>
Monitor session bar
No destination configured
 Source Interfaces
 -----
 TenGigE 0/0/0/3.100:
 Direction: Rx
 Status: Not operational (no destination)
Here are additional trace and debug commands:
RP/0/RP0/CPU0:router# show monitor-session platform trace ?
all Turn on all the trace
errors Display errors
events Display interesting events
RP/0/RP0/CPU0:router# show monitor-session trace ?
process Filter debug by process
RP/0/RP0/CPU0:router# debug monitor-session process all
RP/0/RP0/CPU0:router# debug monitor-session process ea
RP/0/RP0/CPU0:router# debug monitor-session process ma
RP/0/RP0/CPU0:router# show monitor-session process mgr
 detail Display detailed output
 errors Display only attachments which have errors
 internal Display internal monitor-session information
```

```
| Output Modifiers

RP/0/RP0/CPU0:router# show monitor-session status

RP/0/RP0/CPU0:router# show monitor-session status errors

RP/0/RP0/CPU0:router# show monitor-session status internal
```

Verifying UDF-based ACL

Use the **show monitor-session status detail** command to verify the configuration of UDF on ACL.

RP/0/RP0/CPU0:leaf1# show monitor-session 1 status detail

```
Fri May 12 19:40:39.429 UTC

Monitor-session 1

Destination interface tunnel-ip3

Source Interfaces
-----

TenGigE0/0/0/15

Direction: Rx-only

Port level: True

ACL match: Enabled

Portion: Full packet
Interval: Mirror all packets

Status: Not operational (destination not active)
```