



M Commands

This chapter describes the Cisco NX-OS system management commands that begin with the letter M.

 match datalink

match datalink

To configure the match data link (or Layer 2) attributes option in a flow record, use the **match datalink** command. To remove the data link configuration, use the **no** form of this command.

```
match datalink {mac source-address | mac destination-address | ethertype | vlan}
no match datalink {mac source-address | mac destination-address | ethertype | vlan}
```

Syntax Description	<table border="1"> <tr> <td>mac</td><td>Specifies the MAC address.</td></tr> <tr> <td>source-address</td><td>Specifies the source MAC address.</td></tr> <tr> <td>destination-address</td><td>Specifies the destination MAC address.</td></tr> <tr> <td>ethertype</td><td>Specifies the EtherType.</td></tr> <tr> <td>vlan</td><td>Specifies the VLAN ID.</td></tr> </table>	mac	Specifies the MAC address.	source-address	Specifies the source MAC address.	destination-address	Specifies the destination MAC address.	ethertype	Specifies the EtherType.	vlan	Specifies the VLAN ID.
mac	Specifies the MAC address.										
source-address	Specifies the source MAC address.										
destination-address	Specifies the destination MAC address.										
ethertype	Specifies the EtherType.										
vlan	Specifies the VLAN ID.										

Defaults	None
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Command Modes	NetFlow record configuration (config-flow-record)
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	4.1	This command was introduced.

Usage Guidelines	This command does not require a license.
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Examples	This example shows how to configure the match data link attributes option in a flow record:
	<pre>switch(config)# flow record NetFlow1 switch(config-flow-record)# match datalink mac source-address</pre>

This example shows how to remove the data link match option from a flow record:

```
switch(config-flow-record)# no match datalink mac source-address
switch(config-flow-record)#
```

Related Commands

Command	Description
match ip	Configures the match IP option for defining a NetFlow record map.
match ipv4	Configures the match IPv4 option for defining a NetFlow record map.

match ip

match ip

To configure the match IP option for defining a NetFlow record map, use the **match ip** command. To remove this option, use the **no** form of this command.

match ip {protocol | tos}

no match ip {protocol | tos}

Syntax Description	protocol Specifies the protocol. tos Specifies the type of service (ToS).				
Defaults	None				
Command Modes	NetFlow record configuration (config-flow-record)				
SupportedUserRoles	network-admin vdc-admin				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(1)</td><td>This command was introduced.</td></tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
Release	Modification				
4.0(1)	This command was introduced.				
Usage Guidelines	This command does not require a license.				
Examples	<p>This example shows how to configure the match IP option for defining a NetFlow record map:</p> <pre>switch(config)# flow record Custom-NetFlow-Record-1 switch(config-flow-record)# match ip protocol switch(config-flow-record)# match ip tos switch(config-flow-record)# </pre> <p>This example shows how to remove the match option:</p> <pre>switch(config-flow-record)# no match ip protocol switch(config-flow-record)# no match ip tos switch(config-flow-record)# </pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show flow record</td><td>Displays information about NetFlow records.</td></tr> </tbody> </table>	Command	Description	show flow record	Displays information about NetFlow records.
Command	Description				
show flow record	Displays information about NetFlow records.				

match ipv4

To configure the match IPv4 option for defining a NetFlow record map, use the **match ipv4** command. To remove this option, use the **no** form of this command.

match ipv4 {source | destination} address

no match ipv4 {source | destination} address

Syntax Description	source Specifies the source address. destination Specifies the destination address. address Specifies the address.
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Defaults	None
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Command Modes	NetFlow record configuration (config-flow-record)
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
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Examples	This example shows how to configure the match IPv4 option for defining a NetFlow record map:
	<pre>switch(config)# flow record Custom-NetFlow-Record-1 switch(config-flow-record)# match ipv4 source address switch(config-flow-record)# match ipv4 destination address switch(config-flow-record)# </pre>

This example shows how to remove the match IPv4 configuration:

```
switch(config-flow-record)# no match ipv4 source address
switch(config-flow-record)# no match ipv4 destination address
switch(config-flow-record)#

```

Related Commands	Command	Description
	show flow record	Displays information about NetFlow records.

match (NetFlow)

match (NetFlow)

To specify match criteria for Flexible NetFlow flow records, use the **match** command. To remove match criteria for flow records, use the **no** form of this command.

```
match {flow direction | interface {input | output} | ip {protocol | tos} | ipv4 {destination address | source address} | transport {destination-port | source-port}}
```

```
match {flow direction | interface {input | output} | ip {protocol | tos} | ipv4 {destination address | source address} | transport {destination-port | source-port}}
```

Syntax Description

flow direction	Specifies the direction of the flow to be matched.
interface input	Specifies that the match criterion is based on the input interface.
interface output	Specifies that the match criterion is based on the output interface.
ip protocol	Specifies that the match criterion is based on protocol.
ip tos	Specifies that the match criterion is based on type of service (ToS).
ipv4 destination address	Specifies that the match criterion is based on the destination IPv4 address.
ipv4 source address	Specifies that the match criterion is based on the source IPv4 address.
transport destination-port	Specifies that the match criterion for transport layer fields is based on the destination port.
transport source-port	Specifies that the match criterion for transport layer fields is based on the source port.

Defaults

No matching criteria are specified by default.

Command Modes

Flow record configuration

SupportedUserRoles

network-admin
vdc-admin

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

A Flexible NetFlow flow record must be enabled before you can use the **match** command.

To export Layer 4 data, you must configure both the **match transport** and the **match ip protocol** commands. The data is collected and displayed in the output of the **show hardware flow ip** command but is not collected and exported until you configure both commands.

This command does not require a license.

Examples

This example shows how to specify the direction of the flow to be matched:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match flow direction
```

This example shows how to specify the match criterion is based on the input interface:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match interface input
```

This example shows how to specify that the match criterion is based on the output interface:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match interface output
```

This example shows how to specify that the match criterion is based on protocol:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match ip protocol
```

This example shows how to specify that the match criterion is based on type of service (ToS):

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match ip tos
```

This example shows how to specify that the match criterion is based on the destination IPv4 address:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match ipv4 destination address
```

This example shows how to specify that the match criterion is based on the source IPv4 address:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match ipv4 source address
```

This example shows how to specify that the match criterion for transport layer fields is based on the destination port:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match ipv4 transport destination-port
```

This example shows how to specify that the match criterion for transport layer fields is based on the source port:

```
switch(config)# flow record FLOW-RECORD-1
switch(config-flow-record)# match ipv4 transport source-port
```

Related Commands

Command	Description
flow record	Creates a flow record.

 match transport

match transport

To configure the match transport option for defining a NetFlow record map, use the **match transport** command. To remove the match transport option, use the **no** form of this command.

match transport {destination-port | source-port}

no match transport {destination-port | source-port}

Syntax Description	destination-port Specifies the transport destination port. source-port Specifies the transport source port.				
Defaults	None				
Command Modes	NetFlow record configuration (config-flow-record)				
SupportedUserRoles	network-admin vdc-admin				
Command History	<table border="1"> <thead> <tr> <th>Release</th><th>Modification</th></tr> </thead> <tbody> <tr> <td>4.0(1)</td><td>This command was introduced.</td></tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
Release	Modification				
4.0(1)	This command was introduced.				
Usage Guidelines	This command does not require a license.				
Examples	<p>This example shows how to configure the match transport option for defining a NetFlow record map:</p> <pre>switch(config)# flow record Custom-NetFlow-Record-1 switch(config-flow-record)# match transport source-port</pre> <p>This example shows how to remove the configuration:</p> <pre>switch(config-flow-record)# no match transport source-port switch(config-flow-record)</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show flow record</td><td>Displays information about NetFlow records.</td></tr> </tbody> </table>	Command	Description	show flow record	Displays information about NetFlow records.
Command	Description				
show flow record	Displays information about NetFlow records.				

mode

To specify the mode in a NetFlow sampler, use the **mode** command. To remove the mode, use the **no** form of this command.

mode *samples*

no mode [*samples*]

Syntax Description	<i>samples</i> Number of samples per sampling. The range is from 1 to 64.				
Defaults	None				
Command Modes	NetFlow sampler configuration (config-flow-sampler)				
SupportedUserRoles	network-admin vdc-admin				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
Release	Modification				
4.0(1)	This command was introduced.				

Usage Guidelines This command does not require a license.



For F2 Series modules, and additional sampling of 1:100 is applied over the configured valued. For example, if the configured sampling is 1 in 800, the actual applied samplings is 1 in 80000. With this always-enabled additional 1:100 sampling, the packets range for all F2 Series module ports is from 1 to 819100.

Examples This example shows how to specify the mode in a NetFlow sampler:

```
switch(config)# sampler Custom-NetFlow-Sampler-1
switch(config-flow-sampler)# mode 1 out-of 1000
switch(config-flow-sampler)#

```

This example shows how to remove the mode configuration:

```
switch(config-flow-sampler)# no mode
```

mode

Related Commands	Command	Description
	show sampler	Displays information about NetFlow samplers.

mode extended

To configure the Ethernet Switched Port Analyzer (SPAN) session as an extended bidirectional session, use the **mode extended** command. To remove the SPAN session as an extended bidirectional session, use the **no** form of this command.

mode extended

no mode extended

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Monitor configuration mode (config-monitor)

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	6.2(2)	This command was introduced.

Usage Guidelines You cannot use this command for a unidirectional SPAN session.

Extended SPAN sessions cannot source incoming traffic on M1 Series modules in either the ingress or egress direction. Extended SPAN sessions support traffic only from the F Series and M2 Series modules.

Hardware session 15 is used by NetFlow on F2 and F2e Series modules. Any extended session using this hardware ID will not span incoming traffic on the F2 and the F2e ports.

This command does not require a license.

Examples This example shows how to configure the SPAN session as an extended bidirectional session:

```
switch(config)# monitor session 3 tx
switch(config-monitor)# mode extended
```

Related Commands	Command	Description
	monitor session	Places you in the monitor configuration mode for configuring a SPAN session.

monitor counter

To configure a Simple Network Management Protocol (SNMP) monitor counter, use the **monitor counter** command. To remove a monitor counter configuration, use the **no** form of this command.

```
monitor counter {invalid-crc | invalid-words | link-loss | protocol-error | rx-performance | signal-loss | state-change | sync-loss | tx-performance}
```

```
no monitor counter {invalid-crc | invalid-words | link-loss | protocol-error | rx-performance | signal-loss | state-change | sync-loss | tx-performance}
```

Syntax Description

invalid-crc	Configures the invalid-crc counter.
invalid-words	Configures the invalid-words counter.
link-loss	Configures the link-loss counter.
protocol-error	Configures the protocol-error counter.
rx-performance	Configure the ingress (rx) performance counter.
signal-loss	Configures the signal-loss counter.
state-change	Configures the state-change counter.
sync-loss	Configures the sync-loss counter.
tx-performance	Configures the egress (tx) performance counter.

Defaults

None

Command Modes

Port-monitor configuration (config-port-monitor)

SupportedUserRoles

network-admin
vdc-admin

Command History

Release	Modification
4.1(2)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to configure an SNMP counter:

```
switch(config) port-monitor name PM1
switch(config-port-monitor)# monitor counter signal-loss
switch(config-port-monitor) #
```

This example shows how to remove a counter configuration:

```
switch(config)# no monitor counter signal-loss  
switch(config-port-monitor)#[/pre]
```

Related Commands

Command	Description
counter	Configures an individual counter.

 monitor erspan origin ip-address

monitor erspan origin ip-address

To configure the Encapsulated Remote Switched Port Analyzer (ERSPAN) origin IP address, use the **monitor erspan origin ip-address** command. To remove the ERSPAN origin IP address configuration, use the **no** form of this command.

monitor erspan origin ip-address *ip-address* global

no monitor erspan origin ip-address *ip-address* global

Syntax Description	<table border="0"> <tr> <td><i>ip-address</i></td><td>Global origin IP address.</td></tr> <tr> <td>global</td><td>(Optional) Specifies the default virtual device context (VDC) configuration across all VDCs.</td></tr> </table>	<i>ip-address</i>	Global origin IP address.	global	(Optional) Specifies the default virtual device context (VDC) configuration across all VDCs.
<i>ip-address</i>	Global origin IP address.				
global	(Optional) Specifies the default virtual device context (VDC) configuration across all VDCs.				

Defaults	None
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Command Modes	Global configuration mode (config)
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	5.1(1)	This command was introduced.

Usage Guidelines	The global origin IP address can be configured in either the default VDC or the admin VDC. The value that is configured in this VDC is valid across all VDCs.
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When you change the origin IP address in the default VDC, it impacts all of the sessions.

This command does not require a license.

Examples	This example shows how to configure the ERSPAN origin IP address:
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```
switch# configure terminal
switch(config)# monitor erspan origin ip-address 10.1.1.1 global
switch(config)#
```

This example shows how to remove the ERSPAN IP address:

```
switch# configure terminal
switch(config)# no monitor erspan origin ip-address 10.1.1.1 global
switch(config)#
```

monitor erspan granularity

To configure the granularity for Encapsulated Remote Switched Port Analyzer (ERSPAN) Type III sessions, use the **monitor erspan granularity** command. To remove this feature, use the **no** form of this command.

monitor erspan granularity {100_ms | 100_ns | 1588 | ns}

no monitor erspan granularity {100_ms | 100_ns | 1588 | ns}

Syntax Description	100_ms Specifies 100 microseconds.
	100_ns Specifies 100 nanoseconds.
	1588 Specifies the IEEE 1588 time representation format in seconds or nanoseconds.
	ns Specifies nanoseconds.

Defaults	vdc
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Command Modes	Global configuration mode (config)
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	6.1(1)	This command was introduced.

Usage Guidelines The clock manager adjusts the ERSPAN timers based on the granularity setting. If you configure IEEE 1588, the clock manager synchronizes the ERSPAN timers across switches. Otherwise, the clock manager synchronizes the ERSPAN timer with the master timer in the switch.

588 granularity mode is not supported in Cisco NX-OS Release 6.1 and is rejected if selected.

M2 Series modules support 100 microseconds, 100 nanoseconds, and nanoseconds granularity. F2 Series and F2e Series modules support only 100 microseconds and 100 nanoseconds granularity.

This command can be applied only in the default VDC.

This command does not require a license.

Examples This example shows how to configure the granularity for 100 microseconds:

```
switch# configure terminal
switch(config)# monitor erspan granularity 100_ms
switch(config)#
```

 monitor session

monitor session

To enter the monitor configuration mode for configuring Encapsulated Remote Switched Port Analyzer (ERSPAN) or an Ethernet Switched Port Analyzer (SPAN) session for analyzing traffic between ports, use the **monitor session** command. To disable an ERSPAN or an SPAN session(s), use the **no** form of this command.

monitor session {*session_number* | all} {rx | tx | type [erspan-source | erspan-destination | local] | shut}

no monitor session {*session_number* | all} [shut]

Syntax Description	<table border="1"> <tr> <td><i>session_number</i></td><td>Session number to use for monitoring a switched port. The range is from 1 to 48.</td></tr> <tr> <td>all</td><td>Specifies all sessions for monitoring a switched port.</td></tr> <tr> <td>rx</td><td>Specifies an ingress-extended SPAN session.</td></tr> <tr> <td>tx</td><td>Specifies an egress-extended SPAN session.</td></tr> <tr> <td>type</td><td>Specifies a session type. A session type can be local, erspan-source, or erspan-destination.</td></tr> <tr> <td>erspan-source</td><td>(Optional) Creates an ERSPAN source session.</td></tr> <tr> <td>erspan-destination</td><td>(Optional) Creates an ERSPAN destination session.</td></tr> <tr> <td>local</td><td>(Optional) Creates a local session.</td></tr> <tr> <td>shut</td><td>Specifies a shut state for the selected session.</td></tr> </table>	<i>session_number</i>	Session number to use for monitoring a switched port. The range is from 1 to 48.	all	Specifies all sessions for monitoring a switched port.	rx	Specifies an ingress-extended SPAN session.	tx	Specifies an egress-extended SPAN session.	type	Specifies a session type. A session type can be local , erspan-source , or erspan-destination .	erspan-source	(Optional) Creates an ERSPAN source session.	erspan-destination	(Optional) Creates an ERSPAN destination session.	local	(Optional) Creates a local session.	shut	Specifies a shut state for the selected session.
<i>session_number</i>	Session number to use for monitoring a switched port. The range is from 1 to 48.																		
all	Specifies all sessions for monitoring a switched port.																		
rx	Specifies an ingress-extended SPAN session.																		
tx	Specifies an egress-extended SPAN session.																		
type	Specifies a session type. A session type can be local , erspan-source , or erspan-destination .																		
erspan-source	(Optional) Creates an ERSPAN source session.																		
erspan-destination	(Optional) Creates an ERSPAN destination session.																		
local	(Optional) Creates a local session.																		
shut	Specifies a shut state for the selected session.																		
Defaults	None																		
Command Modes	Global configuration mode (config)																		
SupportedUserRoles	Super user VDC administrator VDC user																		
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>6.2(2)</td> <td>Added the rx, tx, and shut keywords.</td> </tr> <tr> <td>5.1(1)</td> <td>The number of sessions has been increased to 48.</td> </tr> <tr> <td>4.0(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	6.2(2)	Added the rx , tx , and shut keywords.	5.1(1)	The number of sessions has been increased to 48.	4.0(1)	This command was introduced.										
Release	Modification																		
6.2(2)	Added the rx , tx , and shut keywords.																		
5.1(1)	The number of sessions has been increased to 48.																		
4.0(1)	This command was introduced.																		
Usage Guidelines	While configuring an ERSPAN source session, if rx , tx , or both keywords are not entered, the source is configured for both directions.																		

The new session configuration is added to the existing session configuration. By default, the session is created in the shut state, and the session is a local SPAN session.

For more information about the ERSPAN configuration, see the *Cisco Nexus 7000 Series NX-OS System Management Configuration Guide, Release 6.x*.

This command does not require a license.

Examples

This example shows how to enter the monitor configuration mode for configuring SPAN session number 9 for analyzing traffic between ports:

```
switch(config)# monitor session 9 type local
switch(config-monitor)# description A Local SPAN session
switch(config-monitor)# source interface ethernet 1/1
switch(config-monitor)# destination interface ethernet 1/2
switch(config-monitor)# no shut
```

This example shows how to configure any SPAN destination interfaces as Layer 2 SPAN monitor ports before activating the SPAN session:

```
switch(config)# interface ethernet 1/2
switch(config-if)# switchport
switch(config-if)# switchport monitor
switch(config-if)# no shutdown
```

This example shows how to configure a typical SPAN destination trunk interface:

```
switch(config)# interface Ethernet1/2
switch(config-if)# switchport
switch(config-if)# switchport mode trunk
switch(config-if)# switchport monitor
switch(config-if)# switchport trunk allowed vlan 10-12
switch(config-if)# no shutdown
```

This example shows how to terminate or extend RSPAN:

```
switch(config)# vlan 200
switch(config-vlan)# remote-span
switch(config-vlan)#
```

This example shows how to monitor RSPAN VLAN traffic using a local SPAN:

```
switch(config)# monitor session 1 type local
switch(config-monitor)# description RSPAN VLAN as source
switch(config-monitor)# source vlan 200
switch(config-monitor)# destination interface ethernet 1/2
switch(config-monitor)# no shut
switch(config-monitor)#
```

This example shows how to disable a SPAN session:

```
switch(config)# no monitor session 9 type local
```

This example show how to create an ERSPAN source:

```
switch# configure terminal
switch(config)# monitor session 1 type erspan-source
switch(config-monitor-erspan-src)# source int eth1/1
switch(config-monitor-erspan-src)# destination ip address 10.1.1.1
switch(config-monitor-erspan-src)# erspan-id 101
switch(config-monitor-erspan-src)# vrf erspan-vrf
switch(config-monitor-erspan-src)# filter vlan 100
switch(config-monitor-erspan-src)# no shut
```

monitor session

This example show how to create an ERSPAN destination:

```
switch# configure terminal
switch(config)# monitor session 1 type erspan-destination
switch(config-monitor-erspan-dst)# destination interface eth1/5
switch(config-monitor-erspan-dst)# vrf foo
switch(config-monitor-erspan-dst)# erspan-id 12
switch(config-monitor-erspan-dst)# source ip 10.1.1.1
switch(config-monitor-erspan-dst)# no shut
```

This example show how to create an access control list (ACL) filter and associate it with the ERSPAN source, IP time-to-leave (TTL), and differentiated services code point (DSCP) value:

```
switch# configure terminal
switch(config)# monitor session 3 type erspan-source
switch(config-monitor)# description erspan_src_session_3
switch(config-monitor-erspan-src)# source interface port-channel 2
switch(config-monitor-erspan-src)# filter vlan 3-5, 7
switch(config-monitor-erspan-src)# filter access-group ACL1
switch(config-monitor-erspan-src)# destination ip-address 10.1.1.1
switch(config-monitor-erspan-src)# erspan-id 5
switch(config-erspan-src)# vrf default
switch(config-erspan-src)# ip ttl 25
switch(config-erspan-src)# ip dscp 42
switch(config-monitor-erspan-src)# exit
```

Related Commands

Command	Description
show monitor session	Displays the specified SPAN or ERSPAN session configuration.
description	Adds a comment or a description of up to 32 characters to a SPAN session.
destination	Adds a SPAN destination where source packets are copied.
source	Configures the source and the traffic direction in which to copy packets for a SPAN and ERSPAN session.

mtu

To configure the maximum transmission unit (MTU) truncation size for packets in the specified Ethernet Switched Port Analyzer (SPAN) session, use the **mtu** command. To remove the MTU truncation size configuration, use the **no** form of this command.

mtu *mtu-size*

no mtu

Syntax Description	<i>mtu-size</i>	MTU truncation size. The configurable range is from 176 to 1500 bytes. The local SPAN range is from 64 to 1500 bytes.
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Defaults	Disabled
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Command Modes	Monitor configuration (config-monitor)
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Supported User Roles	network-admin vdc-admin
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Command History	Release	Modification
	6.1(1)	Starting with 6.1, MTU truncation also support ERSPAN session.
	5.2(1)	This command was introduced.

Usage Guidelines	Make sure that you are in the correct virtual device context (VDC). To change the VDC, use the switchto vdc command.
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MTU truncation and the SPAN rate limit cannot be enabled for the same SPAN session. If you configure both for one session, only the rate limit is allowed on F1 Series modules, and MTU truncation is disabled until you disable the rate limit configuration. This limitation does not apply to F2 and M2 Series modules or Supervisor 2.

MTU truncation and the ERSPAN source rate limit are supported only on F Series and M2 Series modules and Supervisor 2. They are not supported on M1 Series modules.



MTU truncation and ERSPAN sampling can be enabled at the same time and have no precedence over each other because they are applied to different aspects of the source packet (size versus packet count).

This command does not require a license.

Examples

This example shows how to configure the MTU truncation size for packets in the specified SPAN session:

```
switch# configure terminal
switch(config)# monitor session 5
switch(config-monitor)# mtu 128
switch(config-monitor)#

```

This example shows how to configure the MTU truncation size for packets in the specified ERSPAN session:

```
switch# configure terminal
switch(config)# monitor session 3 type erspan-source
switch(config-erspan-src) # mtu 100

```

This example shows how to remove the MTU truncation size configuration for packets in the specified SPAN session:

```
switch# configure terminal
switch(config)# monitor session 5
switch(config-monitor) # no mtu

```

Related Commands

Command	Description
monitor session	Places you in the monitor configuration mode for configuring a SPAN session.
show monitor session	Displays the status of the SPAN or ERSPAN session.

multicast best-effort

To configure the multicast best effort mode for the specified Encapsulated Remote Switched Port Analyzer (ERSPAN) or the Ethernet Switched Port Analyzer (SPAN) session, use the **multicast best-effort** command. To remove the multicast best effort mode for an ERSPAN or SPAN session, use the **no** form of this command.

multicast best-effort

no multicast best-effort

Syntax Description This command has no arguments or keywords.

Defaults Disabled

Command Modes Monitor configuration (config-monitor)

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	5.2(1)	This command was introduced.

Usage Guidelines By default, SPAN replication occurs on both the ingress and egress line card. When you enable the multicast best effort mode, SPAN replication occurs only on the ingress line card for multicast traffic or on the egress line card for packets egressing out of Layer 3 interfaces (that is, on the egress line card, packets egressing out of Layer 2 interfaces are not replicated for SPAN).

Make sure that you are in the correct virtual device context (VDC). To change the VDC, use the **switchto vdc** command.



Note Multicast best effort mode applies only to M1 Series modules

This command does not require a license.

Examples This example shows how to configure the multicast best effort mode for the specifies ERSPAN or SPAN session:

```
switch# configure terminal
switch(config)# monitor session 3
switch(config-monitor)# multicast best-effort
switch(config-monitor)#

```

multicast best-effort

This example shows how to remove the multicast best effort mode for the specified ERSPAN or SPAN session:

```
switch# configure terminal  
switch(config)# monitor session 3  
switch(config-monitor)# no multicast best-effort  
switch(config-monitor)#
```

Related Commands

Command	Description
monitor session	Places you in the monitor configuration mode for configuring a SPAN session.
show monitor session	Displays the status of the SPAN or ERSPAN session.