



## D Commands

---

This chapter describes the system management commands that begin with D.

# description (NetFlow exporter)

To add a description to a NetFlow exporter, use the **description** command. To remove the description, use the **no** form of this command.

**description** *line*

**no description** [*line*]

|                           |  |
|---------------------------|--|
| <b>Syntax Description</b> | <i>line</i> Description string. The string can have a maximum of 63 alphanumeric characters. |
|---------------------------|--|

|                 |      |
|-----------------|------|
| <b>Defaults</b> | None |
|-----------------|------|

|                      |   |
|----------------------|---|
| <b>Command Modes</b> | NetFlow exporter configuration (config-flow-exporter) |
|----------------------|---|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 7.0(0)N1(1)    | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command does not require a license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | This example shows how to add a description to a NetFlow exporter: |
|-----------------|--|

```
switch(config)# flow export Netflow-Exporter-1
switch(config-flow-exporter)# description Custom-Exporter-1
switch(config-flow-exporter)
```

This example shows how to remove the description:

```
switch(config-flow-exporter)# no description
switch(config-flow-exporter)
```

|                         |                           |   |
|-------------------------|---------------------------|---|
| <b>Related Commands</b> | <b>Command</b>            | <b>Description</b>                            |
|                         | <b>show flow exporter</b> | Displays information about NetFlow exporters. |

# description (NetFlow monitor)

To add a description to a NetFlow monitor, use the **description** command. To remove the description, use the **no** form of this command.

**description** *line*

**no description** [*line*]

| Syntax Description | <i>line</i> | Description string. The string can have a maximum of 63 alphanumeric characters. |
|--------------------|-------------|--|
|--------------------|-------------|--|

| Defaults | None |
|----------|------|
|----------|------|

| Command Modes | NetFlow monitor configuration (config-flow-monitor) |
|---------------|---|
|---------------|---|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 7.0(0)N1(1) | This command was introduced. |

| Usage Guidelines | This command does not require a license. |
|------------------|--|
|------------------|--|

| Examples | This example shows how to add a description to a NetFlow monitor: |
|----------|---|
|----------|---|

```
switch(config)# flow monitor NetFlow-Monitor-1
switch(config-flow-monitor)# description Custom-Monitor-1
switch(config-flow-monitor)#
```

This example shows how to remove the description:

```
switch(config-flow-monitor)# no description
```

| Related Commands | Command                 | Description                                 |
|------------------|-------------------------|---|
|                  | <b>show flow record</b> | Displays information about NetFlow records. |

# description (NetFlow record)

To add a description to a NetFlow record, use the **description** command. To remove the description, use the **no** form of this command.

**description** *line*

**no description** [*line*]

|                           |  |
|---------------------------|--|
| <b>Syntax Description</b> | <i>line</i> Description string. The string can have a maximum of 63 alphanumeric characters. |
|---------------------------|--|

|                 |      |
|-----------------|------|
| <b>Defaults</b> | None |
|-----------------|------|

|                      |   |
|----------------------|---|
| <b>Command Modes</b> | NetFlow record configuration (config-flow-record) |
|----------------------|---|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 7.0(0)N1(1)    | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command does not require a license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | This example shows how to add a description to a NetFlow record: |
|-----------------|--|

```
switch(config)# flow record NetFlow-Record-1
switch(config-flow-record)# description Custom-Flow-Record-1
switch(config-flow-record)#
```

This example shows how to remove the description:

```
switch(config-flow-record)# no description
```

|                         |                         |   |
|-------------------------|-------------------------|---|
| <b>Related Commands</b> | <b>Command</b>          | <b>Description</b>                          |
|                         | <b>show flow record</b> | Displays information about NetFlow records. |

# description (NetFlow sampler)

To add a description to a NetFlow sampler, use the **description** command. To remove the description, use the **no** form of this command.

**description** *line*

**no description** [*line*]

| Syntax Description | <i>line</i> | Description string. The string can have a maximum of 63 alphanumeric characters. |
|--------------------|-------------|--|
|--------------------|-------------|--|

| Defaults | None |
|----------|------|
|----------|------|

| Command Modes | NetFlow sampler configuration (config-flow-sampler) |
|---------------|---|
|---------------|---|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 7.0(0)N1(1) | This command was introduced. |

| Usage Guidelines | This command does not require a license. |
|------------------|--|
|------------------|--|

| Examples | This example shows how to add a description to a NetFlow sampler: |
|----------|---|
|----------|---|

```
switch(config)# sampler Netflow-Sampler-1
switch(config-flow-sampler)# description Custom-Sampler-1
switch(config-flow-sampler)#
```

This example shows how to remove the description:

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

| Related Commands | Command             | Description                                  |
|------------------|---------------------|--|
|                  | <b>show sampler</b> | Displays information about NetFlow samplers. |

## description (SPAN, ERSPAN)

To add a description to an Ethernet Switched Port Analyzer (SPAN) or an Encapsulated Remote Switched Port Analyzer (ERSPAN) session configuration, use the **description** command. To remove the description, use the **no** form of this command.

**description** *description*

**no description**

|                           |                    |  |
|---------------------------|--------------------|--|
| <b>Syntax Description</b> | <i>description</i> | String description of the SPAN session configuration. This string is limited to 32 characters. |
|---------------------------|--------------------|--|

|                        |                          |
|------------------------|--------------------------|
| <b>Command Default</b> | No description is added. |
|------------------------|--------------------------|

|                      |   |
|----------------------|---|
| <b>Command Modes</b> | SPAN session configuration mode (config-monitor)<br>ERSPAN source session configuration mode (config-erspan-src)<br>ERSPAN destination session configuration mode (config-erspan-dst)<br>SPAN-on-Drop session configuration mode (config-span-on-drop)<br>SPAN-on-Drop ERSPAN session configuration mode (config-span-on-drop-erspan)<br>SPAN-on-Latency session configuration mode (config-span-on-latency)<br>SPAN-on-Latency ERSPAN session configuration mode (config-span-on-latency-erspan) |
|----------------------|---|

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>  |
|------------------------|----------------|--|
|                        | 7.0(0)N1(1)    | This command was modified. This command was implemented in the following modes: ERSPAN destination session configuration mode, SPAN-on-Drop session configuration mode, SPAN-on-Drop ERSPAN session configuration mode, SPAN-on-Latency session configuration mode, and SPAN-on-Latency ERSPAN session configuration mode. |
|                        | 6.0(2)N1(1)    | This command was introduced.   |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | Use the <b>description</b> command to provide a reminder in the configuration to describe what certain SPAN and ERSPAN sessions are used for. The description appears in the output of the following commands such as <b>show monitor session</b> and <b>show running-config monitor</b> . |
|-------------------------|--|

|                 |   |
|-----------------|---|
| <b>Examples</b> | This example shows how to add a description for a SPAN session: |
|-----------------|---|

```
switch# configure terminal
switch(config)# monitor session 9 type local
switch(config-monitor)# description A Local SPAN session
switch(config-monitor)#
```

This example shows how to add a description for an ERSPAN source session:

```
switch# configure terminal
```

```
switch(config)# monitor session 9 type erspan-source
switch(config-erspan-src)# description ERSPAN-source-session
switch(config-erspan-src)#
```

This example shows how to add a description for an ERSPAN destination session:

```
switch# configure terminal
switch(config)# monitor session 9 type erspan-destination
switch(config-erspan-dst)# description ERSPAN-destination-session
switch(config-erspan-dst)#
```

This example shows how to add a description for an SPAN-on-Drop session:

```
switch# configure terminal
switch(config)# monitor session 9 type span-on-drop
switch(config-span-on-drop)# description span-on-drop-session
switch(config-span-on-drop)#
```

This example shows how to add a description for an ERSPAN SPAN-on-Drop session:

```
switch# configure terminal
switch(config)# monitor session 9 type span-on-drop-erspan
switch(config-span-on-drop-erspan)# description span-on-drop-erspan-session
switch(config-span-on-drop-erspan)#
```

This example shows how to add a description for an SPAN-on-Latency session:

```
switch# configure terminal
switch(config)# monitor session 9 type span-on-latency
switch(config-span-on-latency)# description span-on-latency-session
switch(config-span-on-latency)#
```

This example shows how to add a description for an ERSPAN SPAN-on-Latency session:

```
switch# configure terminal
switch(config)# monitor session 9 type span-on-latency-erspan
switch(config-span-on-latency-erspan)# description span-on-latency-erspan-session
switch(config-span-on-latency-erspan)#
```

## Related Commands

| Command                            | Description   |
|------------------------------------|---|
| <b>destination (SPAN session)</b>  | Configures a destination SPAN port.                               |
| <b>monitor session</b>             | Creates a new SPAN session configuration.                         |
| <b>show monitor session</b>        | Displays SPAN session configuration information.                  |
| <b>show running-config monitor</b> | Displays the running configuration information of a SPAN session. |
| <b>source (SPAN session)</b>       | Configures a source SPAN port.                                    |

# destination

To specify the destination for a NetFlow exporter, use the **destination** command. To remove a destination, use the **no** form of this command.

```
destination {ipaddr | ipv6addr} [use-vrf vrf_name]
```

```
no destination [{ipaddr | ipv6addr} [use-vrf vrf_name]
```

| Syntax Description                |  |
|-----------------------------------|--|
| <i>ipaddr</i>                     | Destination IP address for a collector.                              |
| <i>ipv6addr</i>                   | Destination IPv6 address for a collector.                            |
| <b>use-vrf</b><br><i>vrf_name</i> | (Optional) Specifies the Virtual Routing and Forwarding (VRF) label. |

| Defaults |      |
|----------|------|
|          | None |

| Command Modes |   |
|---------------|---|
|               | NetFlow exporter configuration (config-flow-exporter) |

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 7.0(0)N1(1) | This command was introduced. |

| Usage Guidelines |  |
|------------------|--|
|                  | This command does not require a license. |

| Examples |   |
|----------|---|
|          | This example shows how to specify the destination for a NetFlow exporter: |

```
switch(config)# Flow exporter NetFlow-Exporter-1
switch(config-flow-exporter)# destination 192.168.11.2
switch(config-flow-exporter)#
```

This example shows how to remove the destination:

```
switch(config-flow-exporter)# no destination
```

| Related Commands | Command                   | Description                                   |
|------------------|---------------------------|---|
|                  | <b>show flow exporter</b> | Displays information about NetFlow exporters. |



## destination (ERSPAN session)

To configure an Encapsulated Remote Switched Port Analyzer (ERSPAN) session destination IP address, use the **destination** command. To remove the destination ERSPAN IP address, use the **no** form of this command.

```
destination ip ip_address
```

```
no destination ip ip_address
```

### Syntax Description

|                   |   |
|-------------------|---|
| <b>ip</b>         | Configures the remote IP address.           |
| <i>ip_address</i> | IPv4 address in the format <i>A.B.C.D</i> . |

### Command Default

None

### Command Modes

ERSPAN source session configuration mode (config-erspan-src)  
 SPAN-on-Drop ERSPAN session configuration mode (config-span-on-drop-erspan)  
 SPAN-on-Latency ERSPAN session configuration mode (config-span-on-latency-erspan)

### Command History

| Release     | Modification  |
|-------------|---|
| 7.0(0)N1(1) | This command was modified. This command was implemented in the following modes: SPAN-on-Drop ERSPAN session configuration mode and SPAN-on-Latency ERSPAN session configuration mode. |
| 6.0(2)N1(1) | This command was introduced.  |

### Usage Guidelines

You can configure only one destination IP address for an ERSPAN.  
 This command does not require a license.

### Examples

This example shows how to configure an ERSPAN source session destination IP address:

```
switch# configure terminal
switch(config)# monitor session 1 type erspan-source
switch(config-erspan-src)# destination ip 192.0.3.1
switch(config-erspan-src)#
```

This example shows how to configure an ERSPAN SPAN-on-Drop session destination IP address:

```
switch# configure terminal
switch(config)# monitor session 9 type span-on-drop-erspan
switch(config-span-on-drop-erspan)# destination ip 192.0.3.1
switch(config-span-on-drop-erspan)#
```

This example shows how to configure an ERSPAN SPAN-on-Latency session destination IP address:

```
switch# configure terminal
```

## ■ destination (ERSPAN session)

```
switch(config)# monitor session 9 type span-on-latency-erspan
switch(config-span-on-latency-erspan)# destination ip 192.0.3.1
switch(config-span-on-latency-erspan)#
```

## Related Commands

| Command                            | Description   |
|------------------------------------|---|
| <b>monitor session</b>             | Creates a new SPAN session configuration.                         |
| <b>show monitor session</b>        | Displays SPAN session configuration information.                  |
| <b>show running-config monitor</b> | Displays the running configuration information of a SPAN session. |
| <b>source (ERSPAN session)</b>     | Configures a source SPAN port.                                    |
| <b>source (SPAN session)</b>       | Configures a source SPAN port.                                    |

## destination (SPAN session)

To configure a Switched Port Analyzer (SPAN) destination port, use the **destination** command. To remove the destination SPAN port, use the **no** form of this command.

**destination interface** {**ethernet** *slot*[/*QSFP-module*]/*port*}

**no destination interface** {**ethernet** *slot*[/*QSFP-module*]/*port*}

| Syntax Description | interface  | Specifies the interface type to use as the destination SPAN port.   |
|--------------------|--|---|
|                    | <b>ethernet</b>                                  | Specifies the Ethernet interface to use as the destination SPAN port.   |
|                    | <i>slot</i> [/ <i>QSFP-module</i> ]/ <i>port</i> | The <i>slot</i> number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 199. The <i>port</i> number is from 1 to 128. |

**Command Default** None

**Command Modes**

- SPAN session configuration mode (config-monitor)
- SPAN-on-Drop session configuration mode (config-span-on-drop)
- SPAN-on-Latency session configuration mode (config-span-on-latency)
- ERSPAN destination session configuration mode (config-erspan-dst)

| Command History | Release     | Modification  |
|-----------------|-------------|---|
|                 | 7.0(0)N1(1) | This command was modified. This command was implemented in the following modes: ERSPAN destination session configuration mode, SPAN-on-Drop session configuration mode, SPAN-on-Latency session configuration mode. |
|                 | 6.0(2)N1(1) | This command was introduced.  |

**Usage Guidelines** Each local SPAN, SPAN-on-Drop, and ERSPAN destination session must have a destination port (also called a *monitoring port*) that receives a copy of traffic from the source port.

The destination port can be any Ethernet physical port and must reside on the same switch as the source port (for a local SPAN session). The destination port cannot be a source port, a port channel, a VLAN, Host Interface (HIF), or a SAN port channel group.

A destination port receives copies of sent and received traffic for all monitored source ports. If a destination port is oversubscribed, it can become congested. This congestion can affect traffic forwarding on one or more of the source ports.

**Examples** This example shows how to configure an Ethernet interface SPAN destination port and activate the SPAN session:

```
switch# configure terminal
switch(config)# interface ethernet 1/5
switch(config-if)# switchport monitor
```

```

switch(config-if)# exit
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 1/5
switch(config-monitor)# no shutdown
switch(config-monitor)#

```

This example shows how to configure an Ethernet interface SPAN destination port and activate the SPAN-on-Drop session :

```

switch# configure terminal
switch(config)# interface ethernet 3/5
switch(config-if)# switchport monitor
switch(config-if)# exit
switch(config)# monitor session 11 type span-on-drop
switch(config-span-on-drop)# source interface ethernet 3/1
switch(config-span-on-drop)# destination interface ethernet 3/5
switch(config-span-on-drop)#

```

This example shows how to configure an Ethernet interface SPAN destination port and activate the SPAN-on-Latency session:

```

switch# configure terminal
switch(config)# interface ethernet 4/5
switch(config-if)# switchport monitor
switch(config-if)# exit
switch(config)# monitor session 12 type span-on-latency
switch(config-span-on-latency)# source interface ethernet 4/1
switch(config-span-on-latency)# destination interface ethernet 4/5
switch(config-span-on-latency)#

```

This example shows how to configure an Ethernet interface SPAN destination port and activate the ERSPAN destination session:

```

switch# configure terminal
switch(config)# interface ethernet 2/5
switch(config-if)# switchport monitor
switch(config-if)# exit
switch(config)# monitor session 10 type erspan-destination
switch(config-erspan-dst)# source ip 10.1.1.1
switch(config-erspan-dst)# destination interface ethernet 2/5
switch(config-erspan-dst)#

```

#### Related Commands

| Command                            | Description   |
|------------------------------------|---|
| <b>source (SPAN session)</b>       | Configures a source SPAN port.                                    |
| <b>monitor session</b>             | Creates a new SPAN session configuration.                         |
| <b>show monitor session</b>        | Displays SPAN session configuration information.                  |
| <b>show running-config monitor</b> | Displays the running configuration information of a SPAN session. |

# diagnostic bootup level

To configure the bootup diagnostic level to trigger diagnostics when the device boots, use the **diagnostic bootup level** command. To remove bootup diagnostic level configuration, use the **no** form of this command.

**diagnostic bootup level {bypass | complete}**

**no diagnostic bootup level {bypass | complete}**

## Syntax Description

|                 |   |
|-----------------|---|
| <b>bypass</b>   | Specifies that all bootup tests are skipped.                                    |
| <b>complete</b> | Specifies that all bootup diagnostics are performed. This is the default value. |

## Command Default

Complete

## Command Modes

Global configuration mode

## Command History

| Release     | Modification                 |
|-------------|------------------------------|
| 6.0(2)N1(1) | This command was introduced. |

## Examples

This example shows how to configure the bootup diagnostics level to trigger the complete diagnostics:

```
switch(config)# diagnostic bootup level complete
switch(config)#
```

This example shows how to remove the bootup diagnostics level configuration:

```
switch(config)# no diagnostic bootup level complete
switch(config)#
```

## Related Commands

| Command                              | Description                                    |
|--------------------------------------|--|
| <b>show diagnostic bootup level</b>  | Displays the bootup diagnostics level.         |
| <b>show diagnostic bootup result</b> | Displays the results of the diagnostics tests. |

# dscp

To specify the differentiated services code point (DSCP) for a NetFlow exporter, use the **dscp** command. To remove the DSCP parameter, use the **no** form of this command.

**dscp** *dscp*

**no dscp** [*dscp*]

|                           |             |  |
|---------------------------|-------------|--|
| <b>Syntax Description</b> | <i>dscp</i> | Differentiated services code point value. The range is from 0 to 63. |
|---------------------------|-------------|--|

|                 |      |
|-----------------|------|
| <b>Defaults</b> | None |
|-----------------|------|

|                      |   |
|----------------------|---|
| <b>Command Modes</b> | NetFlow exporter configuration (config-flow-exporter) |
|----------------------|---|

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|------------------------|----------------|------------------------------|
|                        | 7.0(0)N1(1)    | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command does not require a license. |
|-------------------------|--|

|                 |   |
|-----------------|---|
| <b>Examples</b> | <p>This example shows how to configure the DSCP parameter:</p> <pre>switch(config)# <b>Flow exporter Custom-NetFlow-Exporter-1</b> switch(config-flow-exporter)# <b>dscp 32</b> switch(config-flow-exporter)#</pre> |
|-----------------|---|

This example shows how to remove the DSCP parameter:

```
switch(config-flow-exporter)# no dscp
switch(config-flow-exporter)
```

| <b>Related Commands</b> | <b>Command</b>            | <b>Description</b>                            |
|-------------------------|---------------------------|---|
|                         | <b>show flow exporter</b> | Displays information about NetFlow exporters. |