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## Show Commands

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This chapter describes the Cisco NX-OS MSDP **show** commands.

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## show ip msdp count

To display information about Multicast Source Discovery Protocol (MSDP) counts, use the **show ip msdp count** command.

**show ip msdp count** [*asn*] [**vrf** {*vrf-name* | **all**}]

| Syntax Description | <i>asn</i>      | (Optional) Autonomous system (AS) number.  |
|--------------------|-----------------|--|
|                    | <b>vrf</b>      | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
|                    | <i>vrf-name</i> | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                    | <b>all</b>      | Specifies all VRFs.  |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | This example shows how to display MSDP counts: |
|-----------------|--|

```
switch(config)# show ip msdp count
```

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## show ip msdp event-history

To display information in the Multicast Source Discovery Protocol (MSDP) event history buffers, use the **show ip msdp event-history** command.

**show ip msdp event-history {errors | msgs | statistics}**

### Syntax Description

|                   |                                     |
|-------------------|-------------------------------------|
| <b>errors</b>     | Displays events of type error.      |
| <b>msgs</b>       | Displays events of type msg.        |
| <b>statistics</b> | Displays events of type statistics. |

### Command Default

None

### Command Modes

Any command mode

### Command History

| Release     | Modification                 |
|-------------|------------------------------|
| 5.0(3)N1(1) | This command was introduced. |

### Examples

This example shows how to display information in the MSDP msgs event history buffer:

```
switch(config)# show ip msdp event-history msgs
```

### Related Commands

| Command                            | Description  |
|------------------------------------|--|
| <b>clear ip msdp event-history</b> | Clears the contents of the MSDP event history buffers. |
| <b>ip msdp event-history</b>       | Configures the size of MSDP event history buffers.     |

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## show ip msdp mesh-group

To display information about Multicast Source Discovery Protocol (MSDP) mesh groups, use the **show ip msdp mesh-group** command.

**show ip msdp mesh-group** [*mesh-group*] [**vrf** {*vrf-name* | **all**}]

|                           |                   |  |
|---------------------------|-------------------|--|
| <b>Syntax Description</b> | <i>mesh-group</i> | (Optional) Mesh group name.  |
|                           | <b>vrf</b>        | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
|                           | <i>vrf-name</i>   | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                           | <b>all</b>        | Specifies all VRFs.  |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 5.0(3)N1(1)    | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | <p>This example shows how to display information about MSDP mesh groups:</p> <pre>switch(config)# <b>show ip msdp mesh-group</b></pre> |
|-----------------|--|

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## show ip msdp peer

To display information about Multicast Source Discovery Protocol (MSDP) peers, use the **show ip msdp peer** command.

**show ip msdp peer** [*peer-address*] [**vrf** {*vrf-name* | **all**}]

|                           |                     |  |
|---------------------------|---------------------|--|
| <b>Syntax Description</b> | <i>peer-address</i> | (Optional) IP address of an MSDP peer.   |
|                           | <b>vrf</b>          | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
|                           | <i>vrf-name</i>     | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                           | <b>all</b>          | Specifies all VRFs.  |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 5.0(3)N1(1)    | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | <p>This example shows how to display information about MSDP peers:</p> <pre>switch(config)# <b>show ip msdp peer</b></pre> |
|-----------------|--|

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## show ip msdp policy statistics sa-policy

To display information about Multicast Source Discovery Protocol (MSDP) Source-Active (SA) policies, use the **show ip msdp policy statistics sa-policy** command.

**show ip msdp policy statistics sa-policy** *peer-address* {**in** | **out**} [**vrf** {*vrf-name*}]

| Syntax Description  |  |
|---------------------|--|
| <i>peer-address</i> | IP address of the MSDP peer for the SA policy.   |
| <b>in</b>           | Specifies the input policy.  |
| <b>out</b>          | Specifies the output policy.   |
| <b>vrf</b>          | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
| <i>vrf-name</i>     | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | <p>This example shows how to display information about MSDP SA policies:</p> <pre>switch(config)# show ip msdp policy statistics sa-policy 192.168.1.10 in</pre> |
|-----------------|--|

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## show ip msdp route

To display information about the Multicast Source Discovery Protocol (MSDP) Source-Active (SA) cache, use the **show ip msdp route** command.

```
show ip msdp route [{source [group]} | {group [source]}] [asn] [peer peer] [detail] [vrf {vrf-name | all}]
```

| Syntax Description      |  |
|-------------------------|--|
| <i>source</i>           | Source address for SA cache information.   |
| <i>group</i>            | (Optional) Group address for SA cache information.                                       |
| <i>asn</i>              | (Optional) Autonomous system (AS) number.  |
| <b>peer</b> <i>peer</i> | (Optional) Specifies the IP address of a peer.   |
| <b>detail</b>           | (Optional) Displays detailed information.  |
| <b>vrf</b>              | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
| <i>vrf-name</i>         | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
| <b>all</b>              | Specifies all VRFs.  |

| Command Default | None |
|-----------------|------|
|-----------------|------|

| Command Modes | Any command mode |
|---------------|------------------|
|---------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

| Usage Guidelines | The <b>show ip msdp sa-cache</b> command is an alternative form of this command.<br>This command requires the LAN Base Services license. |
|------------------|--|
|------------------|--|

| Examples | This example shows how to display information about the MSDP SA cache:<br><pre>switch(config)# <b>show ip msdp route</b></pre> |
|----------|--|
|----------|--|

| Related Commands | Command                      | Description                                    |
|------------------|------------------------------|--|
|                  | <b>clear ip msdp route</b>   | Clears routes in the MSDP Source-Active cache. |
|                  | <b>show ip msdp sa-cache</b> | Displays information about the MSDP SA cache.  |

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## show ip msdp rpf

To display information about the Multicast Source Discovery Protocol (MSDP) next-hop autonomous system (AS) on the Border Gateway Protocol (BGP) path to a rendezvous point (RP) address, use the **show ip msdp rpf** command.

**show ip msdp rpf** *rp-address* [**vrf** {*vrf-name* **all**}]

|                    |                   |  |
|--------------------|-------------------|--|
| Syntax Description | <i>rp-address</i> | IP address of the RP.  |
|                    | <b>vrf</b>        | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
|                    | <i>vrf-name</i>   | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                    | <b>all</b>        | Specifies all VRFs.  |

|                 |      |
|-----------------|------|
| Command Default | None |
|-----------------|------|

|               |                  |
|---------------|------------------|
| Command Modes | Any command mode |
|---------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

|                  |  |
|------------------|--|
| Usage Guidelines | This command requires the LAN Base Services license. |
|------------------|--|

|          |  |
|----------|--|
| Examples | <p>This example shows how to display information about MSDP reverse path forwarding (RPF) peers:</p> <pre>switch(config)# <b>show ip msdp rpf 192.168.1.10</b></pre> |
|----------|--|



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## show ip msdp sa-cache

To display information about the Multicast Source Discovery Protocol (MSDP) Source-Active (SA) cache, use the **show ip msdp sa-cache** command.

```
show ip msdp sa-cache [{source [group]} | {group [source]}] [asn] [peer peer] [detail] [vrf
{vrf-name | all}]
```

| Syntax Description | <i>source</i>           | Source address for SA cache information.   |
|--------------------|-------------------------|--|
|                    | <i>group</i>            | (Optional) Group address for SA cache information.                                       |
|                    | <i>asn</i>              | (Optional) Autonomous system (AS) number.  |
|                    | <b>peer</b> <i>peer</i> | (Optional) Specifies the IP address of a peer.   |
|                    | <b>detail</b>           | (Optional) Displays detailed information.  |
|                    | <b>vrf</b>              | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
|                    | <i>vrf-name</i>         | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                    | <b>all</b>              | Specifies all VRFs.  |

|                 |      |
|-----------------|------|
| Command Default | None |
|-----------------|------|

|               |                  |
|---------------|------------------|
| Command Modes | Any command mode |
|---------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

|                  |  |
|------------------|--|
| Usage Guidelines | <p>The <b>show ip msdp route</b> command is an alternative form of this command.</p> <p>This command requires the LAN Base Services license.</p> |
|------------------|--|

|          |   |
|----------|---|
| Examples | <p>This example shows how to display information about the MSDP SA cache:</p> <pre>switch(config)# <b>show ip msdp sa-cache</b></pre> |
|----------|---|

| Related Commands | Command                       | Description                                    |
|------------------|-------------------------------|--|
|                  | <b>clear ip msdp sa-cache</b> | Clears routes in the MSDP Source-Active cache. |
|                  | <b>show ip msdp route</b>     | Displays information about the MSDP SA cache.  |

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# show ip msdp route

To display information about the Multicast Source Discovery Protocol (MSDP) Source-Active (SA) route cache, use the **show ip msdp route** command.

```
show ip msdp route [{source [group]} | {group [source]}] [asn] [peer peer] [detail] [vrf {vrf-name | all}]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| <i>source</i>           | Source address for SA cache information.   |
| <i>group</i>            | (Optional) Group address for SA cache information.                                       |
| <i>asn</i>              | (Optional) Autonomous system (AS) number.  |
| <b>peer</b> <i>peer</i> | (Optional) Specifies the IP address of a peer.   |
| <b>detail</b>           | (Optional) Displays detailed information.  |
| <b>vrf</b>              | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
| <i>vrf-name</i>         | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
| <b>all</b>              | Specifies all VRFs.  |

## Command Default

None

## Command Modes

Any command mode

## Command History

| Release     | Modification                 |
|-------------|------------------------------|
| 5.0(3)N1(1) | This command was introduced. |

## Usage Guidelines

The **show ip msdp route** command is an alternative form of this command.  
This command requires the LAN Base Services license.

## Examples

This example shows how to display information about the MSDP SA cache:

```
switch(config)# show ip msdp sa-cache
```

## Related Commands

| Command                       | Description                                    |
|-------------------------------|--|
| <b>clear ip msdp sa-cache</b> | Clears routes in the MSDP Source-Active cache. |
| <b>show ip msdp route</b>     | Displays information about the MSDP SA cache.  |

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## show ip msdp sources

To display information about Multicast Source Discovery Protocol (MSDP) learned sources, use the **show ip msdp sources** command.

**show ip msdp sources** [**vrf** {*vrf-name* | **all**}]

| Syntax Description | <b>vrf</b>      | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
|--------------------|-----------------|--|
|                    | <i>vrf-name</i> | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
|                    | <b>all</b>      | Specifies all VRFs.  |
|                    |                 |  |

| Command Default | None |
|-----------------|------|
|-----------------|------|

| Command Modes | Any command mode |
|---------------|------------------|
|---------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

| Usage Guidelines | This command requires the LAN Base Services license. |
|------------------|--|
|------------------|--|

| Examples | This example shows how to display information about MSDP learned sources: |
|----------|---|
|----------|---|

```
switch(config)# show ip msdp sources
```

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## show ip msdp summary

To display summary information about Multicast Source Discovery Protocol (MSDP) peers, use the **show ip msdp summary** command.

```
show ip msdp summary [vrf {vrf-name | all}]
```

### Syntax Description

|                 |  |
|-----------------|--|
| <b>vrf</b>      | (Optional) Applies to a virtual routing and forwarding (VRF) instance.                   |
| <i>vrf-name</i> | VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. |
| <b>all</b>      | Specifies all VRFs.  |

### Command Default

None

### Command Modes

Any command mode

### Command History

| Release     | Modification                 |
|-------------|------------------------------|
| 5.0(3)N1(1) | This command was introduced. |

### Usage Guidelines

This command requires the LAN Base Services license.

### Examples

This example shows how to display summary information about MSDP peers:

```
switch(config)# show ip msdp summary
```

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# show running-config msdp

To display information about the running-system configuration for Multicast Source Discovery Protocol (MSDP), use the **show running-config msdp** command.

**show running-config msdp [all]**

|                           |  |
|---------------------------|--|
| <b>Syntax Description</b> | <b>all</b> (Optional) Displays configured and default information. |
|---------------------------|--|

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                  |
|----------------------|------------------|
| <b>Command Modes</b> | Any command mode |
|----------------------|------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

|                         |  |
|-------------------------|--|
| <b>Usage Guidelines</b> | This command requires the LAN Base Services license. |
|-------------------------|--|

|                 |  |
|-----------------|--|
| <b>Examples</b> | This example shows how to display information about the MSDP running-system configuration: |
|-----------------|--|

```
switch(config)# show running-config msdp
```

```
!Command: show running-config msdp
!Time: Sat Apr 12 09:14:49 2008
```

```
version 5.0(3)N1(1)
feature msdp
```

```
switch(config)#
```

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## show startup-config msdp

To display information about the startup-system configuration for Multicast Source Discovery Protocol (MSDP), use the **show startup-config msdp** command.

**show startup-config msdp [all]**

|                           |  |                              |
|---------------------------|--|------------------------------|
| <b>Syntax Description</b> | <b>all</b> (Optional) Displays configured and default information.   |                              |
| <b>Command Default</b>    | None   |                              |
| <b>Command Modes</b>      | Any command mode   |                              |
| <b>Command History</b>    | <b>Release</b>   | <b>Modification</b>          |
|                           | 5.0(3)N1(1)  | This command was introduced. |
| <b>Usage Guidelines</b>   | This command requires the LAN Base Services license.   |                              |
| <b>Examples</b>           | This example shows how to display information about the startup-system configuration for MSDP:<br><pre>switch(config)# <b>show startup-config msdp</b></pre> |                              |